September 5, 2014

Mr. Jerry Wickham
Alameda County Environmental Health
1311 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: **Report Submittal – Phase II Environmental Site Assessment Report**

Site: Public Storage #CA13186
6800 Overlake Place
Newark, California

Dear Mr. Wickham:

I declare under penalty of perjury that, to the best of my knowledge, the information contained in the attached report is true and correct.

If you have any questions or need additional information, please call me at 818-244-8080

Sincerely,

Public Storage Northern California Newark, Inc.
Jim Fitzpatrick
Senior Vice President – Real Estate Division

Enc: Antea Group's, *Phase II Environmental Site Assessment Report*

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Phase II Environmental Site Assessment Report

Public Storage #CA13186
6800 Overlake Place
Newark, California

Alameda County Environmental Health
Case No. RO0003136
GeoTracker Global ID: T10000006057

Antea Group Project No. PUBL07143
September 5, 2014

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Table of Contents

Tables

Figures

Appendices

Phase II Environmental Site Assessment Report

Public Storage #CA13186
6800 Overlake Place, Newark, CA
Alameda County Environmental Health
Case No. RO0003136

1.0 INTRODUCTION

Antea®Group has prepared this Phase II Environmental Site Assessment (ESA) on behalf of Public Storage Northern California Newark, Inc. (Public Storage) for the property located at 6800 Overlake Place in Newark, California (the site, **Figure 1**). The ESA presents the findings of soil investigation activities conducted by Antea Group c in April and July 2014, to assess the following recognized environmental conditions (RECs) identified during a Phase I ESA conducted on February 7, 2014:

- Potential metals impacts from slag reportedly contained in import fill material reported at a neighboring site;
- Potential organochlorine pesticide contamination from historical agricultural use of the site.

Antea Group conducted soil sampling activities in two areas of the site:

- Area 1: thirteen soil borings (B-1 through B-13) located in the primary portion of the site;
- Area 2: six soil borings (B-14 through B-19) located in an elevated landscaped berm located along the southwest and northwest property boundaries.

1.1 Site Description and Background

The site is a triangular-shaped, vacant and unpaved lot located at the southeast corner of the intersection of Fircrest Street and Overlake Place in Newark, California. The Alameda County Assessor's parcel number for the site is 537-460-13 and the property size is approximately 3.06 acres. **Figure 1** depicts the general location of the subject property, **Figure 2** depicts an aerial of the subject property showing the soil boring locations, and **Figure 3** depicts the subject property with the proposed Public Storage development layout and soil sample lead and arsenic data. The surrounding site use is commercial/industrial in the direct vicinity, and residential use approximately 550 feet to the east. Adjoining property use consists of an existing Public Storage facility to the southeast, a commercial baking facility to the east/northeast, an industrial facility to the northwest and commercial office buildings to the southwest. A drainage canal is located on the south side of Highway 84, approximately 1,000 feet north of the subject property.

Based on a review of historical information it appears that the subject property and surrounding area consisted of agricultural land with scattered farmsteads through the mid-1960s, although salt evaporation ponds were constructed to the southwest of the site circa 1947. Properties to the south of the site began undergoing residential and commercial/industrial development in the late 1960s, while properties to the north remained as farmland until the early 1980s. The subject property consisted of agricultural land until circa 1974. The subject property currently remains undeveloped with the exception of a landscaped berm located along the property

boundaries of Overlake Place and Fircrest Street. The landscaped berm is approximately four-feet above street level.

Information obtained from a *Soil Quality Reconnaissance Report* prepared by Lowney Associates, dated 1994, indicated that imported fill material containing slag was identified on the east-adjoining property and other parcels in the vicinity of the subject property. The report identifies native soils starting at approximately 1.5 feet below ground surface (bgs) to 4.0 feet bgs. Antea Group found further information confirming that slag from the former Pacific States Steel facility located in Union City, California was transported from that facility during the late 1960's and 1970's for use as construction fill throughout the vicinity of the site (Wilson, 1969; RUST, 1993).

Lowney Associates' 1994 report further states that during a soil investigation on the east-adjoining property, eight samples of fill material were collected and analyzed for total metals. Lead was reported in two samples at concentrations at or above the Total Threshold Limit Concentration (TTLC) of 1,000 milligrams/kilogram (mg/kg). Zinc was reported in three samples at concentrations above the TTLC of 5,000 mg/kg. No other metals were reported at concentration above their respective TTLC limit.

The Phase I ESA also identified potential pesticide use as an REC because the subject property was used for agricultural purposes prior to 1939 through the mid-1970s and soil sample data collected on the east adjoining property in 1993 contained 4,4'-Dichlorodiphenyldichloroethylene (4,4'-DDE) in three samples at concentrations ranging from 4.3 to 21 micrograms per kilogram (µg/kg). Further background information is presented in Antea Group's Phase I ESA report (Antea Group, 2014).

2.0 SITE INVESTIGATION

Site investigation activities included the advancement of nineteen soil borings (B-1 through B-19) at locations shown on **Figure 2** and was conducted in two phases. The first phase included advancement of 13 soil borings in a grid pattern (approximate 95 foot grid spacing) located in Area 1 (B-1 through B-13). These borings were advanced by Cascade Drilling, LP (Cascade) on April 1 and 2, 2014. The second phase included advancement of 6 additional soil borings (B-14 through B-19), located in the landscaping in Area 2. These borings were advanced by Woodward Drilling, Inc. (Woodward) on July 22, 2014.

Antea Group staff professionals supervised the drilling activities during both phases of work and conducted the soil sampling and lithologic logging as described below.

2.1 Pre-Field Activities

Prior to initiation of field activities, Antea Group prepared a Health and Safety Plan (HASP) for the work in accordance with Title 8, Section 5192 of the California Code of Regulations. Personnel reviewed the HASP daily during field activities. Antea Group obtained necessary subsurface drilling permits from the Alameda County Water District (ACWD) (**Appendix A**). Antea Group pre-marked the drilling locations, contacted Underground Service Alert (USA) to mark public utilities within the area and subcontracted a private utility locator to clear each drilling location for subsurface utilities.

2.2 Soil Boring Advancement & Soil Sampling

On April 1, 2014, Cascade hand augured borings B-1 and B-2. Sediments encountered in B-1 and B-2 were difficult to hand auger through, and in the location of B-2 the slide hammer used to collect samples for analysis snapped during sampling. Due to these conditions, Antea Group stopped work and returned the following day with a direct push drill rig to advance borings B-3 through B-13. Borings B-1 through B-13 were advanced to a maximum depth of approximately 5.0-feet bgs. On July 22, 2014, Woodward advanced borings B-14 through B-19 via a direct push drill rig and/or a hand auger to a maximum depth of approximately 7.0-feet bgs. The nineteen soil borings were backfilled with neat-cement grout under the supervision of an ACWD inspector upon completion of drilling activities. Drilling and equipment decontamination procedures are described in Antea Group's *Standard Operating Procedures* (**Appendix B**).

During boring advancement, Antea Group collected continuous soil samples for lithologic logging in accordance with Antea Group's *Standard Operating Procedures* (**Appendix B**). An Antea Group geologist logged the lithology in accordance with the Unified Soil Classification System (USGS) and screened the soil samples for volatile organic vapors at approximate 1-foot intervals using a photoionization detector (PID). PID readings were recorded on their respective boring logs. Copies of the boring logs are included in **Appendix C**.

Antea Group labeled the soil samples retained for laboratory analysis with a unique sample name and placed them in an ice-cooled chest following chain-of-custody procedures. Based on the PID readings, field observations, and the objectives of this investigation, Antea Group requested laboratory analysis for the following soil samples:

- Area 1, Borings B-1 through B-13: at depths of 1.0- or 1.5 and 3.0- feet bgs;
- Area 2, Borings B-14 through B-16: at depths of 2.0- and 5.0-feet bgs;
- Area 2, Borings B-17 through B-19: at depths of 2.0-, 5.0- and 7.0-feet bgs.

2.3 Laboratory Analyses

Antea Group submitted the soil samples to Kiff Analytical, LLC (Kiff), a National Environmental Laboratory Accreditation Program (NELAP) certified lab (Certification No. 08263CA) for the following analyses:

- Area 1, Borings B-1 through B-13:
    - California Title 22 CAM-17 Metals (which includes: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, zinc, and mercury) by Environmental Protection Agency (EPA) Test Method 6020/6020A;
    - Organochlorine Pesticides by EPA Test Method 8081A.
- Area 2, Boring B-14 (2-foot sample):
    - California Title 22 CAM-17 Metals EPA Test Method 6020/6020A;
    - Volatile Organic Compounds (VOCs) by EPA Test Method 8260B.
- Area 2, Borings B-15 through B-19:
    - California Title 22 CAM-17 Metals by EPA Test Method 6020/6020A;

- Area 2, Boring B-10 (1-foot sample):
    - Asbestos analysis by California Air Resources Board (ARB) Method 435 for the determination of potential asbestos in serpentine aggregate samples.

Kiff subcontracted the organochlorine pesticide analysis to Calscience Environmental Laboratories, Inc. (Calscience), a NELAP certified lab (Certification No. 03220CA) and the asbestos analysis to Asbestos TEM Laboratories, Inc (California Department of Public Health Environmental Laboratory Accreditation Program Lab No. 1866). The certified laboratory analytical reports are included as **Appendix D**.

2.4 Investigation Derived Waste (IDW)

IDW generated during the April and July 2014 drilling activities is being temporarily stored on-site in 55-gallon Department of Transportation (DOT)-approved steel drums. Antea Group is coordinating appropriate disposal of the waste generated with Belshire Environmental Services, Inc. Antea Group will upload final waste manifest(s) to the State's Geotracker database upon receipt.

3.0 RESULTS

The following sections summarize the lithology observed during drilling activities and the soil sample analytical results. Soil analytical results are summarized in **Tables 1 and 2.**

3.1 Site Lithology

Imported fill material was observed in the soil borings located in Area 1 (B-1 through B-13) in the upper one to two feet. The fill is predominantly classified as sandy clay or clayey sand with gravel. Gravel observed in some borings and at the surface of the site within the top two feet of fill included slag. Soils underlying the fill material included lean clay, fat clay and silt to total depth of the boreholes (approximately 5 feet bgs).

Soil borings advanced within the landscaped berm of Area 2 (B-14 through B-19) contained silt with sand in the upper four to five feet. Beneath the silt, lean clay, and lean clays and silts were observed in the southern and western sides of the berm (B-14 through B-17). Well-graded gravel with sand was observed below the silt material of the berm in the northern half of the landscaping area located along Overlake Place. The sand and gravel material was observed at a depth of 4.5 and 5 feet in borings B-18 and B-19 and extended to the total depth of the boreholes (approximately 7 feet bgs). This depth interval corresponds approximately to the surface soil of Area 1. Boring logs are included as **Appendix C.**

Based on the 2013 geotechnical investigation of the site by Giles Engineering Associates, Inc. (GEA), groundwater was encountered at depths ranging from 10 to 17 feet bgs, which is typical for the area according to the ACWD. However, GEA noted that historical high groundwater elevations suggested fluctuations of the groundwater table, localized zones of perched water, and rise in soil moisture content could be expected during and after the rainy season. The perched water table could rise to within 5 feet of the ground surface.

During advancement of borings B-1 through B-13, water was observed in the boreholes; however, drilling activities during the first part of the Phase II activities (April 1 and 2, 2014) were conducted during and immediately following

significant rainfall resulting in the presence of standing water throughout the property. By contrast, drier conditions were encountered during the drilling of borings B-14 through B-19 on July 22, 2014 and water was not observed in the boreholes.

3.2 Soil Sample Analytical Results

3.2.1 Metals

The following is a summary of metals reported in soil samples collected at the site during the Phase II investigation (**Table 1**):

- Thallium was not reported in the soil samples above the LRLs.
- Other metals including antimony, barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, nickel, selenium, silver, vanadium and zinc, were reported below their respective San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels dated December 2013 – Direct Exposure Soil Levels for Construction/Trench Worker Exposure Scenario (Construction/Trench Worker ESLs) at concentrations generally within background concentration ranges in Alameda County as summarized in **Table 1**.
- Arsenic was reported at concentrations generally below the upper limit of background levels of found in the Bay Area of 11 mg/kg (Duvergé, 2011). The calculated 95% upper confidence level for arsenic at the site is 8.72 mg/kg.
- Lead was reported at concentrations exceeding the commercial and Construction/Trench Worker ESL of 320 mg/kg in 13 of the 41 soil samples analyzed. Five of the 13 samples were reported at concentrations exceeding the upper limit of background concentrations of 700 mg/kg (Shacklette et al., 1984). The maximum reported concentration of lead in the soil samples was 1,400 mg/kg.

3.2.2 Organochlorine Pesticides

The following is a summary of organochlorine pesticides reported in soil samples collected at the site during the Phase II (**Table 2**):

- Aldrin, chlordane, 4,4-dichlorodiphenyltrichloroethylene (4,4-DDT), dieldrin, endosulfan I, endosulfan II, endosulfan sulfate, endrin, endrin aldehyde, endrin ketone, heptachlor, and toxaphene were not reported in the soil samples above their respective laboratory minimum reporting limits (MRLs).
- Two organo-chlorinated pesticides, 4,4-dichlorodiphenyldichloroethane (4,4-DDD) 4,4-DDE, were reported in the soil samples at concentrations below their respective Construction/Trench Worker ESLs.

3.2.3 Volatile Organic Compounds

Based on an elevated PID screening result of 108 parts per million for the soil sample collected at two-feet from boring B-14 (B-14d2.0), VOC analysis was requested for this sample. No VOC concentrations were reported above the respective MRLs or the direct exposure ESLs.

3.2.4 Asbestos

Serpentinite, which can contain naturally occurring asbestos (NOA), often contains similar chromium and nickel concentrations to those observed in the shallow soil samples collected at the site. Antea Group therefore requested analysis for NOA from the soil sample collected from boring B-10 at a depth of 1.0 (B-10d1.0), where the greatest total chromium concentration was reported. No asbestos fibers were detected in the sample.

4.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Antea Group's QA/QC measures included a detailed data validation of the Kiff and Calscience analytical reports. Antea Group's laboratory data validation checklists and the Kiff and Calscience analytical reports with chain-of-custody documentation are included as **Appendix D** and summarized below.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	Yes, one qualifier*
Are the data valid for their intended purpose?	Yes, data are deemed valid

*Recoveries for multiple Matrix Spike/Matrix Spike Duplicate analytes were outside of control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.

5.0 DISCUSSION

The analytical laboratory results for soil samples collected during this Phase II investigation were compared to available California regulatory screening levels to assess the potential need for remedial actions under the future planned site use as a Public Storage facility. The screening levels used included California Human Health Screening Levels (CHHSLs) established by the State Office of Environmental Health Hazard Assessment (California Environmental Protection Agency, January 2005) and Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (SFBRWCQB), (SFBRWQCB, December 2013). Due to the planned future site use as a Public Storage facility, the SFBRWQCB Direct Exposure Soil Screening Levels for Construction/Trench Workers was used for this comparison. In addition, concentrations of metals were compared to generally accepted background concentrations in California as shown on **Table 1**, as well as to a sample of slag from the former Pacific States Steel site.

As shown in **Table 1**, several metals including, cadmium, chromium, copper, lead, molybdenum, and zinc, were detected in samples collected from the shallow fill material above generally accepted background levels. Arsenic was detected above the generally accepted background level in the San Francisco Bay Region of 11 mg/kg in two samples, one at a concentration of 12 mg/kg (B-7d1.0), and one at 20 mg/kg (B-6d1.0). The 95% upper confidence level calculated arsenic at the site is 8.72 mg/kg, below allowable concentrations.

Due to the report of slag being used in fill materials in the area, Antea Group compared the average ratios of elevated metals detected in soil samples collected from the shallow fill material on-site to the ratio of metals concentrations in slag samples collected from the former Pacific States Steel foundry (RUST, 1993). There is a

strong correlation of the metals concentrations found in the on-site shallow fill samples to the slag sample collected from the Pacific States Steel facility. In addition, most of shallow fill samples contained lead above its respective ESL for Construction/Trench Workers. A summary of the lead ESL exceedences in the complete soil sample set is provided below:

AREA 1					
Analyte	**Sample Depth (feet bgs)**	**Number of Sample Concentrations > ESLs : Total Number Samples Analyzed**	**ESL (mg/kg)**	**Minimum Concentration above ESL [Sample ID] (mg/kg)**	**Maximum Concentration above ESL [Sample ID] (mg/kg)**
Lead	1.0-1.5	10:13	320	340 [B-6d1.0]	1,400 [B-5d1.0]
	3.0	0:13		None above ESLs	None above ESLs

AREA 2					
Analyte	**Sample Depth (feet bgs)**	**Number of Sample Concentrations > ESLs : Total Number Samples Analyzed**	**ESL (mg/kg)**	**Minimum Concentration above ESL [Sample ID] (mg/kg)**	**Maximum Concentration above ESL [Sample ID] (mg/kg)**
Lead	2.0	0:6	320	None above ESLs	None above ESLs
	5.0	2:6		850 [B-18d5.0]	1,000 [B-19d5.0]
	7.0	1:3		14 [B-18d7.0]	630 [B-19d7.0]

Note: Sample ID denotes boring name and depth of sample collection, e.g. B-8d1.5 was collected at 1.5 ft bgs from boring B-8.
No concentrations for thallium were reported above the laboratory minimum reporting limits (MRLs), however, the MRLs for samples B-4d1.0, B-5d1.0, B-10d1.0 and B-11d1.0 were 3.6 to 3.8 mg/kg, slightly above the ESL of 3.1 mg/kg.

Metals concentrations were generally highest throughout Area 1 in the one-foot samples, in the fill material, and decreased with depth as native soil was encountered. In Area 2, metals concentrations were generally lowest in the two-foot samples collected within the landscaping soil, and increased with depth at the elevation of Area 1 in the northern half of Area 2 located along Overlake Place. Imported fill material containing elevated metals concentrations was identified at 1 to 2 feet bgs in Area 1 and at 5 to 7 feet bgs in Area 2 in borings B-18 and B-19. Considering the raised height of the landscaped berm area, metals impacts and fill material are located at the same general elevation across Areas 1 and 2 at the subject property.

The soils descriptions and metals data for borings B-14 through B-19 suggest the top four feet of the berm in Area 2 is a different type of fill material from that identified in the deeper soil intervals of these borings and historically documented in the immediate area.

To support proper disposal of soil cuttings generated during field activities, the two soil samples collected from Area 1 that yielded the highest concentrations of total chromium and lead (B-5d1.0 and B-10d1.0, respectively) were submitted to Calscience for Toxicity Characteristic Leaching Procedure (TCLP) analysis of lead and chromium to determine if the IDW exhibits the characteristics of a Resource Conservation and Recovery Act (RCRA) hazardous waste. The intent of the TCLP analysis is to simulate disposal site (i.e., landfill) conditions where potentially acidic percolating liquids can produce leachate by dissolving and mobilizing chemicals present in solid wastes. As such, the method conservatively requires that the sample be ground to maximize surface area and then be acidified to a

pH below 2.0 to simulate landfill conditions. Although the total concentration of lead reported in B-5d1.0 was 1,400 mg/kg by EPA Method 6010B (non-TCLP), based on the TCLP analysis, leachable lead was not reported above the laboratory method MRL of 0.100 mg/L. Additionally, the total concentration of chromium reported in B-10d1.0 was 2,200 mg/kg; however, based on the TCLP analysis, leachable chromium was not detected above the respective MRL of 0.100 mg/L (a copy of the laboratory report is provided in **Appendix D**). Given that the TCLP method conservatively requires grinding and acidification of the sample prior to analysis, whereas field conditions at the site indicate bulk distribution of residual slag materials and generally pH neutral soil conditions, it is unlikely that metals from the slag present in soil at the site represents a threat to groundwater at the site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group completed a Phase II ESA for the proposed Public Storage property located at 6800 Overlake Place in Newark, California. The scope of the Phase II was designed to assess RECs identified during Antea Group's Phase I ESA, and included the advancement of nineteen soil borings for the collection of soil samples for VOCs, organochlorine pesticides and metals.

The results of the investigation did not identify concentrations of organochlorine pesticides or VOCs above applicable screening levels.

Based on a comparison of the metals data to applicable regulatory and background screening levels, the site contains lead concentrations above screening levels for both commercial and direct contact for Construction/Trench Workers in shallow soil. The lead and other elevated metals detected in the shallow fill material correlate to the presence of slag in the shallow fill.

Antea Group therefore recommends that the slag-containing shallow fill material be capped or removed from areas where it may be encountered by current or future surface or subsurface workers (i.e., utility corridors), or where it may be transported off site by wind or stormwater. We recommend that this material remain or be relocated underneath building slabs, pavement, or landscaped areas to prevent exposure to site workers, Public Storage customers and employees, as well as off-site transport by wind or stormwater. The proposed facility layout is shown on **Figure 3**.

Antea Group further recommends the preparation of a Soil Management Plan (SMP), site specific Health and Safety Plan (HSP), and a Dust/Air Monitoring Plan (AMP) for use during site development, including capping and excavation and relocation of the impacted soils. The SMP, HSP, and AMP should include details for construction and grading, excavation, relocation, and dust mitigation measures, plus soil confirmation sampling procedures, as necessary.

7.0 REMARKS

The recommendations contained in this document represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This document is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this document were performed. This document is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this document. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this document.

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8.0 REFERENCES CITED

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Shacklette, Hansford T., and Boerngen, Josephine G., United States Geological Survey, *Element Concentrations in Soils and Other Surficial Materials of the Contrerminous United States, U.S. Geological Survey Professional Paper 1270*, dated 1984.

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Tables

Table 1
ANALYTICAL RESULTS FOR METALS IN SOIL SAMPLES
6800 Overlake Place
Newark, CA 94560

CONCENTRATIONS[1] [milligrams per kilogram (mg/kg)]																			
SFBRWQCB Industrial ESLs[2] (Direct Exposure)			*120*	*10*	*61,000*	*180*	*110*	*460,000*	*49*	*12,000*	*320*	*27*	*1,500*	*6,100*	*1,500*	*1,500*	*3.1*	*1,500*	*93,000*
Background Reference Concentrations[3]			*0.1-9.6*	*0.6-11*	*133-1400*	*0.25-2.7*	*0.05-1.7*	*23-1579*	*2.7-46.9*	*9.1-96.4*	*14.3-107.9*	*0.1-0.9*	*0.1-9.6*	*9-509*	*0.015-0.43*	*0.1-8.3*	*5.3-36.2*	*39-288*	*88-236*
Background Reference Concentrations[4,5]			*<1-2.6*	*11*	*70-5,000*	*<1-15*	*NA*	*3-2,000*	*<3-50*	*2-300*	*<10-700*	*0.03->10*	*<3-7*	*<5-700*	*<0.1-4.3*	*NA*	*2.4-31*	*7-500*	*10-2,100*
CHHSLs[6]			*380*	*0.24*	*63,000*	*1,700*	*7.5*	*100,000 (Cr III)*	*3,200*	*38,000*	*320*	*180*	*4,800*	*16,000*	*4,800*	*4,800*	*63*	*6,700*	*100,000*
Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-1d1.0	1.0	04/01/14	<0.75	**7.8**	**350**	**0.47**	**6.7**	**780**	**11**	**130**	**510**	**0.080**	**13**	**110**	<0.75	**1.1**	<0.75	**64**	**4,800**
B-1d3.0	3.0	04/01/14	<0.75	**7.6**	**220**	**0.52**	<0.50	**85**	**14**	**29**	**10**	<0.050	**1.2**	**93**	<0.75	<0.25	<0.75	**46**	**75**
B-2d1.0	1.0	04/01/14	<0.75	**7.2**	**220**	**0.35**	**3.8**	**400**	**9.9**	**120**	**300**	**0.052**	**5.8**	**63**	<0.75	**0.63**	<0.75	**52**	**1,800**
B-2d3.0	3.0	04/01/14	<0.75	**7.8**	**230**	**0.49**	**2.3**	**190**	**14**	**70**	**150**	<0.050	**2.9**	**85**	<0.75	**0.40**	<0.75	**52**	**1,100**
B-3d1.5	1.5	04/02/14	**0.98**	**11**	**260**	**0.37**	**6.5**	**490**	**12**	**260**	**420**	**0.074**	**12**	**100**	<0.75	**0.96**	<0.75	**56**	**3,200**
B-3d3.0	3.0	04/02/14	<0.75	**8.0**	**200**	**0.54**	<0.50	**83**	**13**	**30**	**10**	<0.050	**0.40**	**90**	<0.75	<0.25	<0.75	**47**	**73**
B-4d1.0	1.0	04/02/14	<0.75	**9.5**	**430**	**0.33**	**8.3**	**1,100**	**7.2**	**210**	**700**	**0.062**	**17**	**70**	<0.75	<1.2	<3.7	**65**	**4,600**
B-4d3.0	3.0	04/02/14	<0.75	**7.2**	**470**	**0.49**	**3.2**	**380**	**11**	**110**	**250**	**0.068**	**4.8**	**77**	<0.75	**0.55**	<0.75	**55**	**1,400**
B-5d1.0	1.0	04/02/14	<0.75	**9.8**	**510**	**0.37**	**19**	**1,300**	**6.0**	**260**	**1,400**	**0.094**	**23**	**66**	<3.8	**1.8**	<3.8	**69**	**8,100**
B-5d3.0	3.0	04/02/14	<0.75	**8.0**	**350**	**0.54**	<0.50	**88**	**13**	**30**	**11**	<0.050	**0.64**	**91**	<0.75	<0.25	<0.75	**48**	**77**
B-6d1.0	1.0	04/02/14	<0.75	**20**	**350**	**0.51**	**5.0**	**290**	**6.4**	**71**	**340**	**0.084**	**7.0**	**44**	**0.86**	**0.68**	<0.75	**50**	**2,100**
B-6d3.0	3.0	04/02/14	<0.75	**8.3**	**270**	**0.56**	<0.50	**92**	**14**	**32**	**12**	<0.050	**0.56**	**93**	<0.75	<0.25	<0.75	**49**	**82**
B-7-d1.0	1.0	04/02/14	<0.75	**12**	**400**	**0.53**	**12**	**630**	**9.9**	**230**	**750**	**0.14**	**7.8**	**73**	<0.75	**1.5**	<1.5	**65**	**5,200**
B-7d3.0	3.0	04/02/14	<0.75	**8.2**	**250**	**0.57**	<0.50	**89**	**15**	**33**	**13**	<0.050	**1.0**	**97**	<0.75	<0.25	<0.75	**50**	**87**
B-8d1.5	1.5	04/02/14	<0.75	**5.4**	**170**	**0.54**	<0.50	**88**	**14**	**34**	**22**	<0.050	**0.44**	**82**	<0.75	<0.25	<0.75	**49**	**120**
B-8d3.0	3.0	04/02/14	<0.75	**8.0**	**260**	**0.54**	<0.50	**91**	**12**	**31**	**14**	<0.050	**0.40**	**92**	<0.75	<0.25	<0.75	**49**	**110**
B-9d1.5	1.5	04/02/14	<0.75	**8.1**	**240**	**0.55**	**2.0**	**220**	**14**	**53**	**160**	<0.050	**1.8**	**88**	<0.75	**0.30**	<0.75	**53**	**1,200**
B-9d3.0	3.0	04/02/14	<0.75	**8.0**	**220**	**0.57**	<0.50	**88**	**15**	**32**	**17**	**0.074**	**0.46**	**95**	<0.75	<0.25	<0.75	**49**	**130**
B-10d1.0	1.0	04/02/14	<3.8	**8.4**	**500**	**1.7**	**9.9**	**2,200**	**3.9**	**340**	**640**	**0.20**	**37**	**50**	<0.75	**1.6**	<3.8	**84**	**5,600**
B-10d3.0	3.0	04/02/14	<0.75	**7.6**	**230**	**0.52**	<0.50	**110**	**12**	**33**	**39**	<0.050	**0.87**	**87**	<0.75	<0.25	<0.75	**46**	**200**
B-11d1.0	1.0	04/02/14	<0.75	**8.3**	**440**	**0.43**	**9.8**	**1,200**	**8.1**	**230**	**680**	<0.050	**14**	**68**	<0.75	<1.2	<3.6	**61**	**4,100**
B-11d3.0	3.0	04/02/14	**1.2**	**7.4**	**220**	**0.47**	<0.50	**83**	**13**	**23**	**14**	<0.050	**0.61**	**89**	<0.75	<0.25	<0.75	**42**	**95**
B-12d1.0	1.0	04/02/14	<0.75	**8.3**	**260**	**0.53**	**4.9**	**510**	**9.8**	**110**	**470**	**0.11**	**14**	**72**	<0.75	**0.69**	<0.75	**60**	**2,500**
B-12d3.0	3.0	04/02/14	<0.75	**7.7**	**210**	**0.48**	<0.50	**85**	**13**	**33**	**27**	<0.050	**0.87**	**91**	<0.75	<0.25	<0.75	**43**	**180**
B-13d1.0	1.0	04/02/14	<1.5	**13**	**370**	**0.40**	**20**	**730**	**7.7**	**310**	**1,300**	**0.32**	**19**	**79**	<1.5	**2.9**	<1.5	**67**	**9,600**
B-13d3.0	3.0	04/02/14	<0.75	**8.0**	**160**	**0.53**	<0.50	**82**	**15**	**32**	**8.8**	<0.050	**0.82**	**98**	<0.75	<0.25	<0.75	**45**	**60**
B-14d2.0	2.0	07/22/14	<0.75	**6.8**	**190**	**0.37**	<0.50	**78**	**12**	**32**	**14**	<0.050	**0.73**	**88**	<0.75	<0.25	<0.75	**37**	**94**
B-14d5.0	5.0	07/22/14	<0.75	**7.4**	**220**	**0.44**	<0.50	**70**	**12**	**33**	**25**	<0.050	**1.5**	**74**	<0.75	<0.25	<0.75	**42**	**180**
B-15d2.0	2.0	07/22/14	<0.75	**7.4**	**190**	**0.38**	<0.50	**78**	**12**	**32**	**18**	**0.27**	**0.43**	**89**	<0.75	<0.25	<0.75	**38**	**150**
B-15d5.0	5.0	07/22/14	<0.75	**8.0**	**210**	**0.43**	<0.50	**79**	**12**	**36**	**35**	<0.050	**1.7**	**74**	<0.75	<0.25	<0.75	**41**	**190**
B-16d2.0	2.0	07/22/14	<0.75	**7.4**	**200**	**0.43**	<0.50	**82**	**14**	**35**	**13**	**0.12**	**0.57**	**86**	<0.75	<0.25	<0.75	**48**	**100**
B-16d5.0	5.0	07/22/14	<0.75	**9.0**	**250**	**0.49**	<0.50	**89**	**13**	**35**	**18**	**0.094**	**0.52**	**90**	<0.75	<0.25	<0.75	**45**	**130**
B-17d2.0	2.0	07/22/14	<0.75	**6.1**	**180**	**0.34**	<0.50	**68**	**12**	**25**	**7.4**	<0.050	**0.36**	**78**	<0.75	<0.25	<0.75	**37**	**53**
B-17d5.0	5.0	07/22/14	<0.75	**7.2**	**270**	**0.34**	**1.3**	**400**	**9.9**	**120**	**150**	<0.050	**5.0**	**73**	<0.75	**0.33**	<0.75	**45**	**830**
B-17d7.0	7.0	07/22/14	<0.75	**7.6**	**210**	**0.36**	<0.50	**76**	**12**	**44**	**17**	<0.050	**0.76**	**83**	<0.75	<0.25	<0.75	**39**	**110**
B-18d2.0	2.0	07/22/14	<0.75	**5.4**	**370**	**0.46**	**0.96**	**210**	**20**	**94**	**94**	<0.050	**2.1**	**79**	<0.75	<0.25	<0.75	**65**	**600**
B-18d5.0	5.0	07/22/14	<0.75	**8.9**	**470**	**0.52**	**11**	**790**	**9.2**	**370**	**850**	**0.19**	**17**	**90**	<1.4	**1.8**	<1.4	**60**	**5000**
B-18d7.0	7.0	07/22/14	<0.75	**6.6**	**220**	**0.53**	<0.50	**120**	**14**	**32**	**14**	**0.15**	**0.43**	**86**	<0.75	<0.25	<0.75	**47**	**110**
B-19d2.0	2.0	07/22/14	<0.75	**7.4**	**210**	**0.43**	<0.50	**78**	**13**	**35**	**9.1**	<0.050	**0.48**	**91**	<0.75	<0.25	<0.75	**44**	**69**
B-19d5.0	5.0	07/22/14	**1.2**	**9.5**	**510**	**0.32**	**9.0**	**780**	**9.9**	**320**	**1000**	**0.054**	**19**	**100**	<1.5	**1.2**	<1.5	**59**	**5500**
B-19d7.0	7.0	07/22/14	<0.75	**9.6**	**420**	**0.49**	**5.3**	**880**	**8.8**	**210**	**630**	<0.050	**13**	**66**	<1.4	**1.1**	<1.4	**69**	**2900**

Notes:
Concentrations above the labortory minimum reporting limits (MRLs) appear in BOLD text.
NR - No reference level
NA - Not applicable or not analyzed
1. Metals analyzed by EPA Method 6010B, except mercury, which was analyzed by EPA Method 7471A.
2. San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) dated December 2013 - Direct Exposure Soil Screening Levels for Construction/Trench Worker Exposure Scenario.
3. Mean background soil concentration from *Background Concentrations of Trace and Major Elements in California Soils* , Kearney Foundation of Soil Science - Division of Agriculture and Natural Resources, University of California, March 1996.
4. Mean background soil concentrations from *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States* , Shacklette and Boerngen, USGS, 1984 for the Western United States, west of 96th meridian.
5. Upper background estimate for undifferentiated urbanized flatland soils in the San Francisco Bay region from Duvergé, Dylan J., *Establishing Background Arsenic In Soil Of The Urbanized San Francisco Bay Region* , December 2011.
6. California Human Health Screening Levels (CHHSLs) dated January 2005 from *Table 1 - Soil and Soil Gas Screening Numbers for Nonvolatile Chemicals Based on Total Exposure to Contaminated Soil: Inhalation, Ingestion, and Dermal Absorption.*

Table 2
ANALYTICAL RESULTS FOR METALS IN SOIL SAMPLES
6800 Overlake Place
Newark, CA 94560

CONCENTRATIONS[1] [milligrams per kilogram (mg/kg)]																
SFBRWQCB Industrial ESLs[2] (Direct Exposure)			*0.87*	*12*	*70*	*50*	*50*	*0.93*	*0.0013[A]*		*NR*	*64*	*NR*	*NR*	*3.6*	*12*
CHHSLs[3]			*0.13*	*1.7*	*9*	*6.3*	*6.3*	*0.13*	*NR*	*NR*	*NR*	*230*	*NR*	*NR*	*0.52*	*1.8*
Sample ID	Sample Depth (feet)	Sample Date	Aldrin	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Toxaphene
B-1d1.0	1.0	04/01/14	<1-2.6	<0.10-97	70-5,000	**<1-15**	<0.0050	3-2,000	<3-50	2-300	<10-700	0.03->10	<3-7	<5-700	<0.1-4.3	<0.099
B-1d3.0	3.0	04/01/14	<0.0051	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-2d1.0	1.0	04/01/14	<0.0050	<0.050	<0.0050	**0.018**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-2d3.0	3.0	04/01/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-3d1.5	1.5	04/02/14	<0.0051	<0.051	<0.0051	**0.016**	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-3d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-4d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.020**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-4d3.0	3.0	04/02/14	<0.0051	<0.051	<0.0051	**0.0052**	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-5d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-5d3.0	3.0	04/02/14	<0.0051	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.100
B-6d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.099
B-6d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-7-d1.0	1.0	04/02/14	<0.0050	<0.050	**0.0075**	**0.012**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-7d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-8d1.5	1.5	04/02/14	<0.0050	<0.050	**0.019**	**0.250**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-8d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-9d1.5	1.5	04/02/14	<0.0050	<0.050	<0.0050	**0.039**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-9d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-10d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.0056**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-10d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-11d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.029**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-11d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-12d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	**0.049**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-12d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-13d1.0	1.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100
B-13d3.0	3.0	04/02/14	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.100

Notes:

Concentrations above the labortory minimum reporting limits (MRLs) appear in BOLD text.

NR - No reference level

NA - Not applicable or not analyzed

DDD - dichlorodiphenyldichloroethane

DDE - dichlorodiphenyldichloroethylene

DDT - dichlorodiphenyltrichloroethane

1. Organochlorine pesticides (OCPs) analyzed by EPA Method 8081A. Additional OCPs were analyzed, but results were not tabulated herein; refer to the laboratory analytical report for complete results.

2. San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) dated December 2013 - Direct Exposure Soil Screening Levels for Construction/Trench Worker Exposure Scenario.

3. California Human Health Screening Levels (CHHSLs) dated January 2005 from *Table 1 - Soil and Soil Gas Screening Numbers for Nonvolatile Chemicals Based on Total Exposure to Contaminated Soil: Inhalation, Ingestion, and Dermal Absorption.*

A. The ESL listed is for Endosulfan, with no distinction made between Endosulfan I and Endosulfan II.

Figures

FIGURE 1
SITE LOCATION MAP

PUBLIC STORAGE #CA13186
6800 OVERLAKE PLACE
NEWARK, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
1401006691P	NP	JH
DATE	REVIEWED BY	FILE NAME
4/23/14		CA13186

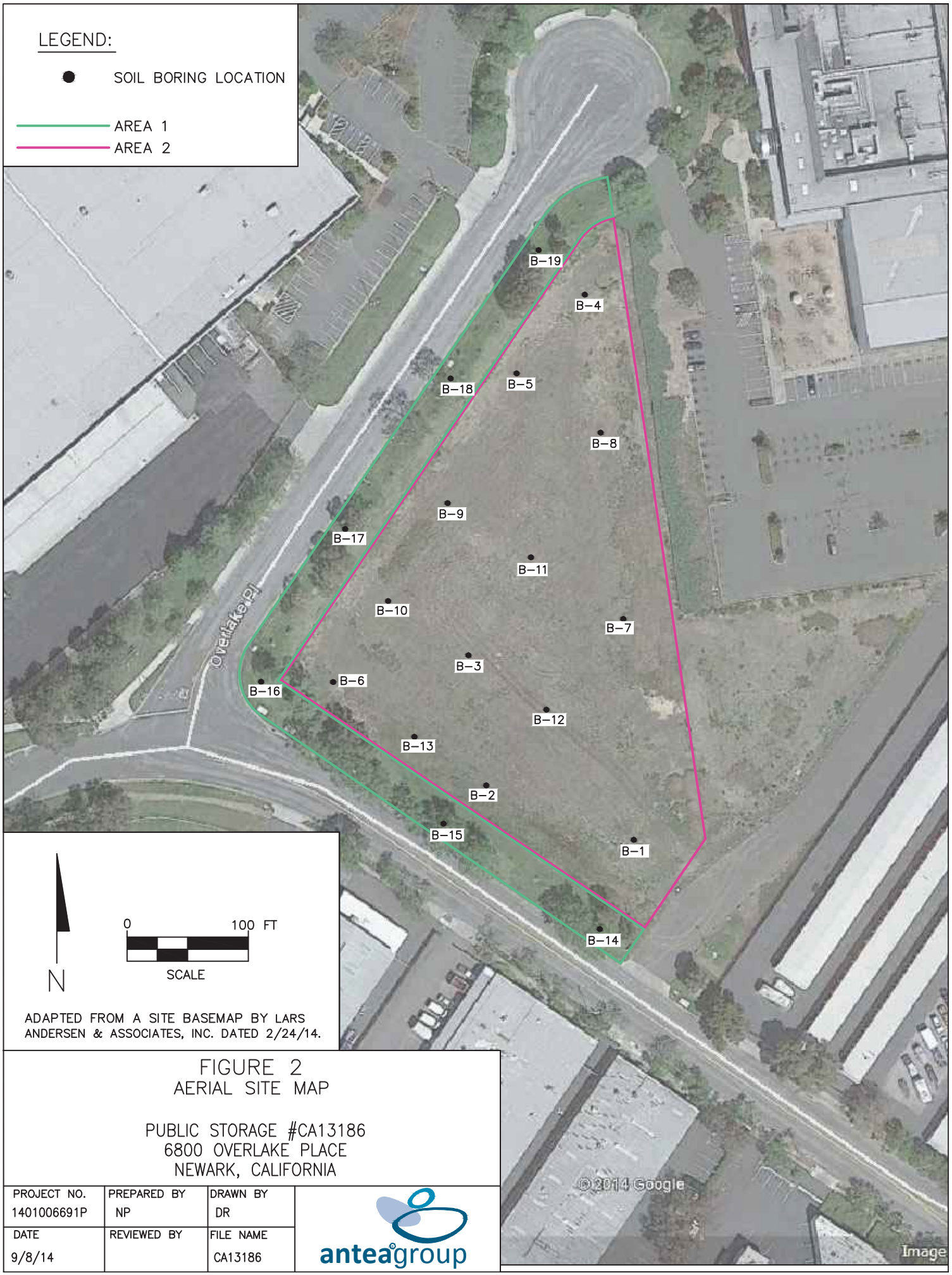
anteagroup

USGS 7.5 MINUTE TOPOGRAPHIC MAP, NEWARK QUADRANGLE (2012)

N

0 2000 FT

SCALE



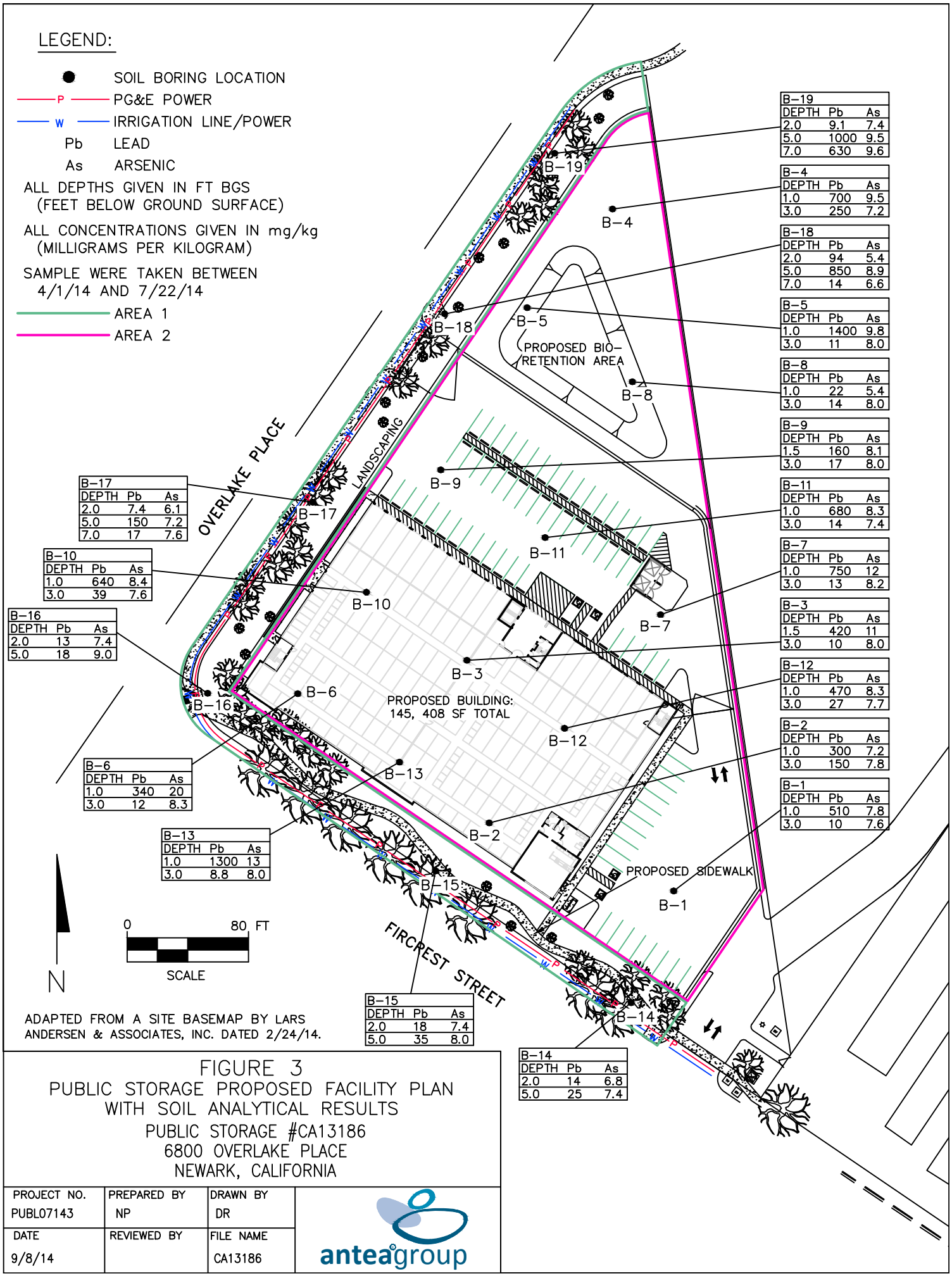
ADAPTED FROM A SITE BASEMAP BY LARS ANDERSEN & ASSOCIATES, INC. DATED 2/24/14.

FIGURE 2
AERIAL SITE MAP

PUBLIC STORAGE #CA13186
6800 OVERLAKE PLACE
NEWARK, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
1401006691P	NP	DR
DATE	REVIEWED BY	FILE NAME
9/8/14		CA13186

anteagroup



ADAPTED FROM A SITE BASEMAP BY LARS ANDERSEN & ASSOCIATES, INC. DATED 2/24/14.

FIGURE 3
PUBLIC STORAGE PROPOSED FACILITY PLAN WITH SOIL ANALYTICAL RESULTS
PUBLIC STORAGE #CA13186
6800 OVERLAKE PLACE
NEWARK, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
PUBL07143	NP	DR
DATE	REVIEWED BY	FILE NAME
9/8/14		CA13186

anteagroup

Appendix A

Soil Boring Permits

ALAMEDA COUNTY WATER DISTRICT
43885 South Grimmer Blvd. • P.O. Box 5110
Fremont, CA 94537-5110
Permitting & Scheduling (510) 668-4460

APPLICATION FOR DRILLING PERMIT

ACWD ORDINANCE NO. 2010-01

Application Received Date: 3/24/14 By: PM
Permit Issued Date: 3/31/14
Permit Expiration Date: 5/31/14
Job No. 1025
Permit No. 2014-0133
Well No. N/A

JOB ADDRESS:
6800 Overlake Place
Newark, CA 94560

PROPERTY OWNER
NAME: Nancy Mueller (Santa Rita Investment)
ADDRESS: 2110 Waverly Street
Palo Alto, CA 94301
TELEPHONE: (650) 326-7045

CONSULTING ENGINEER
NAME: Regina Bussard (Antea Group)
ADDRESS: 1155 N. First Street, Ste. 201
San Jose, CA95112
TELEPHONE: (408) 606-4914 RG/CEG/RCE NO. 8288

DRILLING CONTRACTOR
NAME: Cascade Drilling, L.P.
ADDRESS: 120 S. 23rd Street
Richmond, CA 94804
E-MAIL ADDRESS: rmcgahey@cascadedrilling.com
TELEPHONE: (510) 478-0858 STATE LIC. NO. 938110

When properly signed

THIS APPLICATION IS A VALID PERMIT

to perform only work described below at the given job address, in accordance with ACWD Ordinance No. 2010-01 and all other applicable laws and regulations. Discontinuation of work may result in revocation of permit. ***Permittee must schedule the work in advance with ACWD.*** *ACWD's approval of drawings, designs, specifications, work plans, reports or incidental work and materials shall not relieve the permittee of responsibility for the technical adequacy of the work. Except for special circumstances, all work to be inspected must be performed within ACWD work hours – 7:00 a.m. to 4:30 p.m., Monday through Friday.*

PLEASE CHECK TYPE OF PROPOSED WORK

Each well or other excavation requires a separate permit application form unless otherwise indicated.
Only one specific type of work can be checked per permit application.

WELLS

☐ CONSTRUCTION ☐ REPAIR ☐ DESTRUCTION

☐ Water Well

Monitoring Well:
- ☐ Chemical Investigation
- ☐ Injection Well (for Chemical Cleanup)
- ☐ Geotechnical Investigation

☐ Geothermal Heat Exchange Well

☐ Dewatering Well *(Multiple dewatering wells may be grouped together on the same permit application form)*
Quantity: _____

EXPLORATORY HOLES

☑ CONSTRUCT./DESTRUCT.

Multiple exploratory holes of the same type may be grouped together on the same permit application form.

- ☑ Chemical Investigation
- ☐ Injection Boreholes
- ☐ Soil Vapor Sampling
- ☐ Geotechnical Investigation

Quantity: 13

OTHER EXCAVATIONS

☐ CONSTRUCTION ☐ REPAIR ☐ DESTRUCTION

- ☐ Cathodic Protection Well
- ☐ Inclinometer
- ☐ Vibrating Wire Piezometer
- ☐ Elevator Shaft

Multiple other excavations of the same type may be grouped together on the same permit application form for the following:

- ☐ Cleanup Site Excavation(s)
- ☐ Wick Drains
- ☐ Shaft, Tunnel, or Directional Borehole (s)
- ☐ Support Piers, Piles, or Caissons
- ☐ Other: _____ Quantity: _____

DESCRIPTION OF PROPOSED WORK:
drill 13 boreholes to 5 feet below ground surface using a hand auger to collect soil samples for chemical analysis

TOTAL ESTIMATED COST
$ 3000.00

PERMIT CONDITIONS:
Exploratory Boreholes to be backfilled from bottom of borehole to surface with neat cement

FEES: ☒ Private ☐ City ☐ Governmental Agency

GUARANTEE OF PERFORMANCE: ☐ Cash Deposit ☐ Bond

REFUND: Amount $ _____ Reason: _____

FEES/ DEPOSIT: Date Received 3/24/14 Estimated Amount $ 1,060.00
Check No. 50066 Actual Amount $ 1,060.00
Cash _____ Difference $ 0

ACWD SITE NO. 986
APPROVED FOR SCHEDULING BY: GL DATE: 3/27/14 APPROVED BY: [signature] DATE: 3/31/14

I hereby agree to comply with all conditions of this permit in accordance with ACWD Ordinance No. 2010-01 and to furnish the District a completed copy of D.W.R. Drillers Report (form 188) within sixty (60) days after completion as well as any chemical testing results within thirty (30) days after completion.

Title: Project Professional Signature: [signature] Date: 3-21-14

Representing: Antea Group Name (printed): Regina Bussard

ACWD #458 11-12

ALAMEDA COUNTY WATER DISTRICT
43885 South Grimmer Blvd. • P.O. Box 5110
Fremont, CA 94537-5110
Permitting & Scheduling (510) 668-4460

APPLICATION FOR DRILLING PERMIT

ACWD ORDINANCE NO. 2010-01

Application Received Date: 7/7/14 By: PM | Permit Issued Date: 7/17/14 | Permit Expiration Date: 9/17/14 | Job No. 1450 | Permit No. 2014-0281 | Well No. N/A

JOB ADDRESS: 6800 Overlake Place, Newark CA

PROPERTY OWNER
NAME: Nancy Mueller
ADDRESS: 2110 Waverly Street
Palo Alto, CA 94301
TELEPHONE: (650) 804-5345

CONSULTING ENGINEER
NAME: Antea Group (Andy Lojo)
ADDRESS: 1155 N. First Street, Suite 201
San Jose, CA 95112
TELEPHONE: 407-758-3428 RG/CEG/RCE NO. 6034

DRILLING CONTRACTOR
NAME: Woodward Drilling
ADDRESS: 550 River Road / P O Box 336
Rio Vista, CA 94571
E-MAIL ADDRESS: ryan@woodwarddrilling.com
TELEPHONE: (707) 374-4300 STATE LIC. NO. C-57 710079

When properly signed

THIS APPLICATION IS A VALID PERMIT

to perform only work described below at the given job address, in accordance with ACWD Ordinance No. 2010-01 and all other applicable laws and regulations. Discontinuation of work may result in revocation of permit. ***Permittee must schedule the work in advance with ACWD.*** *ACWD's approval of drawings, designs, specifications, work plans, reports or incidental work and materials shall not relieve the permittee of responsibility for the technical adequacy of the work. Except for special circumstances, all work to be inspected must be performed within ACWD work hours – 7:00 a.m. to 4:30 p.m., Monday through Friday.*

PLEASE CHECK TYPE OF PROPOSED WORK
Each well or other excavation requires a separate permit application form unless otherwise indicated.
Only one specific type of work can be checked per permit application.

WELLS
☐ CONSTRUCTION ☐ REPAIR ☐ DESTRUCTION
☐ Water Well
Monitoring Well:
☐ Chemical Investigation
☐ Injection Well (for Chemical Cleanup)
☐ Geotechnical Investigation
☐ Geothermal Heat Exchange Well
☐ Dewatering Well *(Multiple dewatering wells may be grouped together on the same permit application form)*
Quantity: _____

EXPLORATORY HOLES
☑ CONSTRUCT./DESTRUCT.
Multiple exploratory holes of the same type may be grouped together on the same permit application form.
☑ Chemical Investigation
☐ Injection Boreholes
☐ Soil Vapor Sampling
☐ Geotechnical Investigation
Quantity: 6

OTHER EXCAVATIONS
☐ CONSTRUCTION ☐ REPAIR ☐ DESTRUCTION
☐ Cathodic Protection Well ☐ Inclinometer
☐ Vibrating Wire Piezometer ☐ Elevator Shaft
Multiple other excavations of the same type may be grouped together on the same permit application form for the following:
☐ Cleanup Site Excavation(s) ☐ Wick Drains
☐ Shaft, Tunnel, or Directional Borehole (s) ☐ Support Piers, Piles, or Caissons
☐ Other: _____ Quantity: _____

DESCRIPTION OF PROPOSED WORK:
Advancement of 6 exploratory soil borings to total depth of 5' bgs for environmental investigation. See emailed workplan.

TOTAL ESTIMATED COST $ 570

PERMIT CONDITIONS:
Exploratory Boreholes to be backfilled from bottom of borehole to surface with neat cement

FEES: ☒ Private ☐ City ☐ Governmental Agency
GUARANTEE OF PERFORMANCE: ☐ Cash Deposit ☐ Bond
REFUND: Amount $ _____ Reason: _____

FEES/ DEPOSIT: Date Received 7/7/14 Estimated Amount $ 570-
Check No. 110 Actual Amount $ 570-
Cash _____ Difference $ 0

ACWD SITE NO. 986
APPROVED FOR SCHEDULING BY: _____ DATE: 7/10/14 APPROVED BY: SZ for MAM DATE: 7/17/14

I hereby agree to comply with all conditions of this permit in accordance with ACWD Ordinance No. 2010-01 and to furnish the District a completed copy of D.W.R. Drillers Report (form 188) within sixty (60) days after completion as well as any chemical testing results within thirty (30) days after completion.

Title: Senior Consultant Signature: Carrie M. Lojo Date: 7/7/14

Representing: Antea Group Name (printed): Andy Lojo

ACWD #458 11-12

Appendix B

Antea Group's *Standard Operating Procedures*

STANDARD OPERATING PROCEDURES

Utility Locating

Prior to drilling, boring and excavation locations are marked with white paint or other distinct marking and cleared for underground utilities through Underground Service Alert (USA). In addition, Antea Group will contract an independent locator services to clear boring or excavation locations of subsurface assets. The first five feet (or more in instances where utilities are suspected in close proximity) of each borehole are air-knifed, or carefully advanced with a hand auger if shallow soil samples are necessary, to help evaluate the borehole location for underground structures or utilities in accordance with Antea Group's subsurface hazard avoidance policy.

Subsurface Investigation Methods – GeoProbe®, Sampling, Borehole Completion and Equipment Decontamination

Borehole Advancement using Single-Wall GeoProbe®

Pre-cleaned push rods (typically one to two inches in diameter) are advanced using a hydraulic direct push-type rig for the purpose of collecting samples and evaluating subsurface conditions. The sample barrel located at the leading end of the drill rod serves as a soil sampler, and an acetate liner is inserted into the sample barrel rod prior to advancement of the push rod. Once the sample is collected, the rods and sampler are retracted and the acetate sample tubes are removed from the sampler. The sample barrel is then cleaned, filled with clean sample tubes, inserted into the borehole and advanced to the next sampling point where the sample collection process is repeated.

Undisturbed soil samples selected for laboratory analysis are cut away from the acetate sample liner using a hacksaw, or equivalent tool, in sections approximately 6 inches in length. The 6 inch samples are lined at each end with Teflon® sheets and capped with plastic caps. Labels documenting project number, borehole identification, collection date, and depth are affixed to each sample. The samples are then placed into an ice-filled cooler for delivery under chain-of-custody to a laboratory certified by the State of California for analysis. The remaining collected soil that has not been selected for laboratory analysis is logged using the United Soil Classification System (USCS) under the direction of a State Registered Professional Geologist, and is field screened for organic vapors using a photo ionization detector (PID), or an equivalent tool.

Organic Vapor Reading Collection

Soil samples are collected for analysis in the field for ionizable organic compounds using a PID with a 10.2 eV lamp. The test procedure involves measuring approximately 30 grams from an undisturbed soil sample, placing this sub-sample in a Zip-type bag or foil-wrapped jar. The container is warmed for approximately 20 minutes in the sun; then the head-space within the container is tested for total organic vapor, measured in parts per million as benzene (ppm; volume/volume). The instrument is calibrated prior to drilling. The results of the field-testing are noted on the boring logs. PID readings are useful as a qualitative indication of relative levels of contamination, but cannot be used to quantify petroleum hydrocarbon concentrations with the confidence of laboratory analyses.

Borehole Completion

Upon completion of drilling and sampling, the inner casing rods are retracted. Neat cement grout, mixed at a ratio of 6 gallons of water per 94 pounds of Portland cement, is introduced via a tremie pipe to displace standing water in the borehole, through the annulus of the outer casing rods. The outer rods are retracted as the grout is introduced to bottom

of the boring to prevent the cross contamination of encountered water bearing zones. Displaced groundwater is collected at the surface and placed into DOT approved 55-gallon steel drums, or an equivalent storage container. In areas where the borehole penetrates asphalt or concrete, the borehole is capped with an equivalent thickness of asphalt or concrete patch to match finished grade.

Equipment Decontamination

Equipment that could potentially come in contact subsurface media and compromise the integrity of the samples is carefully decontaminated prior to drilling and sampling. Drilling auger and other large pieces of equipment are decontaminated using high pressure hot water spray. Soil and groundwater sampling apparatus, groundwater pumps, liners and other equipment are decontaminated in a detergent scrub solution and double rinsed in clean tap water rinse followed by a final distilled water rinse.

The rinsate and other wastewater are contained in 55-gallon DOT-approved drums, labeled (to identify the contents, generation date and project) and stored on-site pending waste profiling and disposal.

Waste Handling and Disposal *(Soil Cuttings and Rinsate/Purge Water)*

Soil cuttings and rinsate/purge water generated during drilling and sampling are stored on-site in DOT-approved 55-gallon steel drums pending characterization. A label is affixed to the drums indicating the contents of the drum, suspected contaminants, date of generation, and the boring number from which the waste is generated. The drums are removed from the site by a licensed waste disposal contractor to an appropriate facility for treatment/recycling.

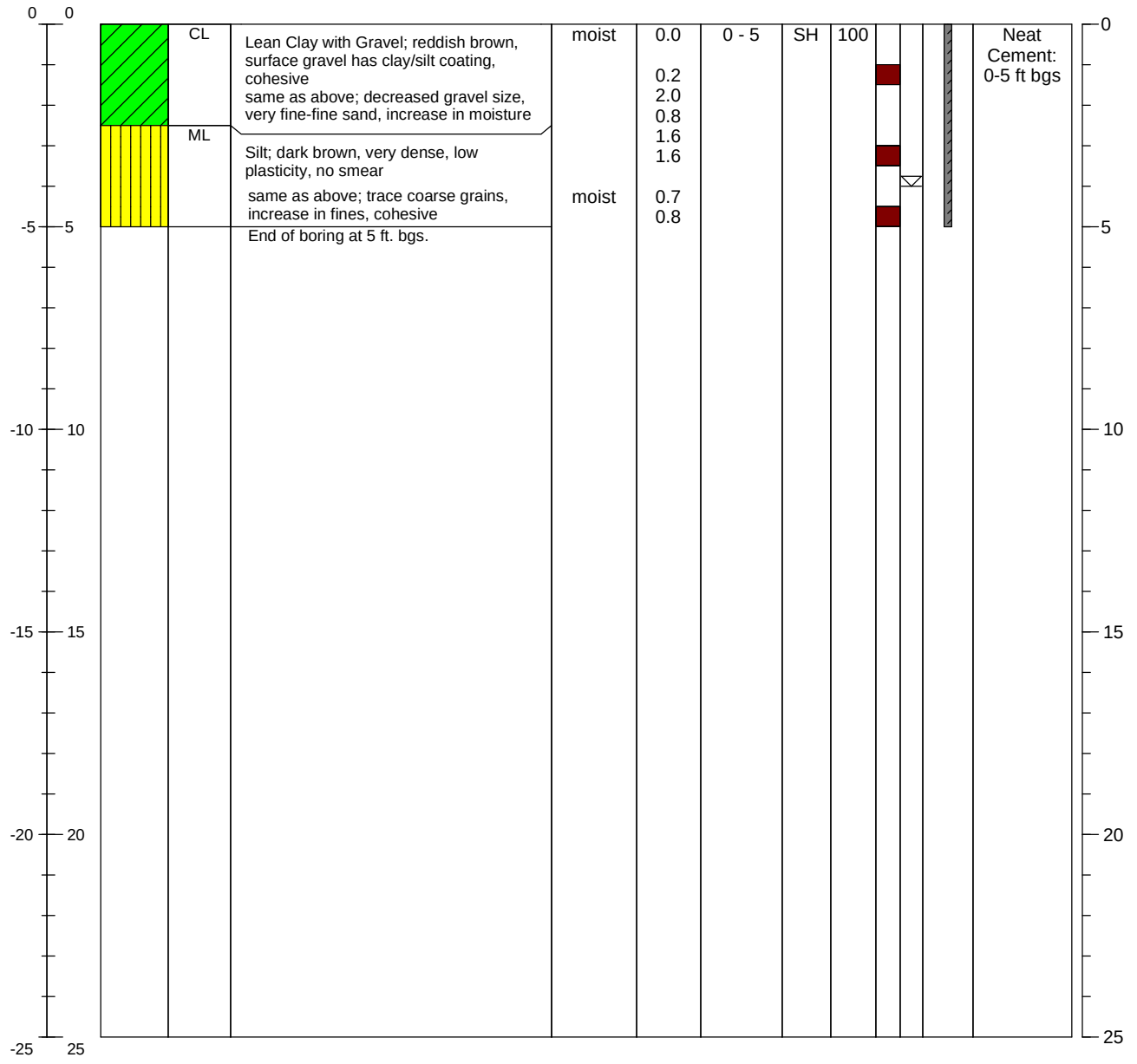
Appendix C

Soil Boring Logs

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-1**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
K. Thornley / **A. Lojo**	**Slide Hammer**	**5 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**4/1/14**	**4/1/14**

LITHOLOGY **SAMPLING DATA**



SH = Slide Hammer

Note: Water noted in the borehole most likely rain water and not groundwater.

Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-2**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place			
Newark **California**	**Cascade Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
K. Thornley / **A. Lojo**	**Slide Hammer**	**5 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**4/1/14**	**4/1/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		GC	Clayey Gravel with Sand; light gray-brown, fine-coarse gravel, cohesive, roots present	moist	28.9	0 - 5	SH	100				Neat Cement: 0-5 ft bgs	0
				same as above; lighter color, increased sand, decreased gravel size (1" dia.)		12.0								
			CH	Fat Clay; dark brown, trace sand, high plasticty		10.2								
-5	5			same as above; yellowish-brown, increased sand	moist									5
				same as above; reddish-brown, increased moisture		7.3								
				End of boring at 5 ft. bgs.										
-10	10													10
-15	15													15
-20	20													20
-25	25													25

SH = Slide Hammer

▽ Water Level During Drilling

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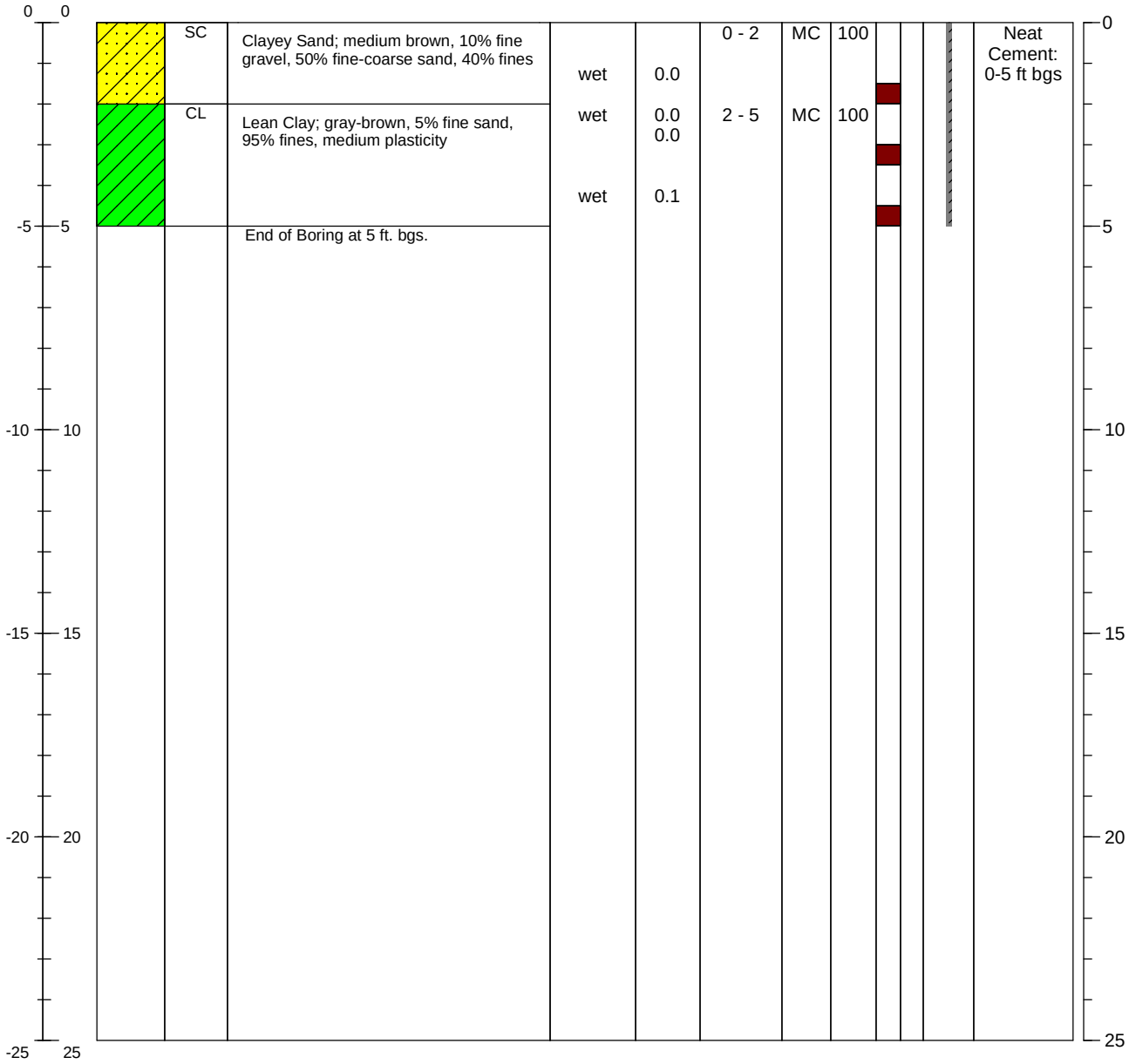
Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-3**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**



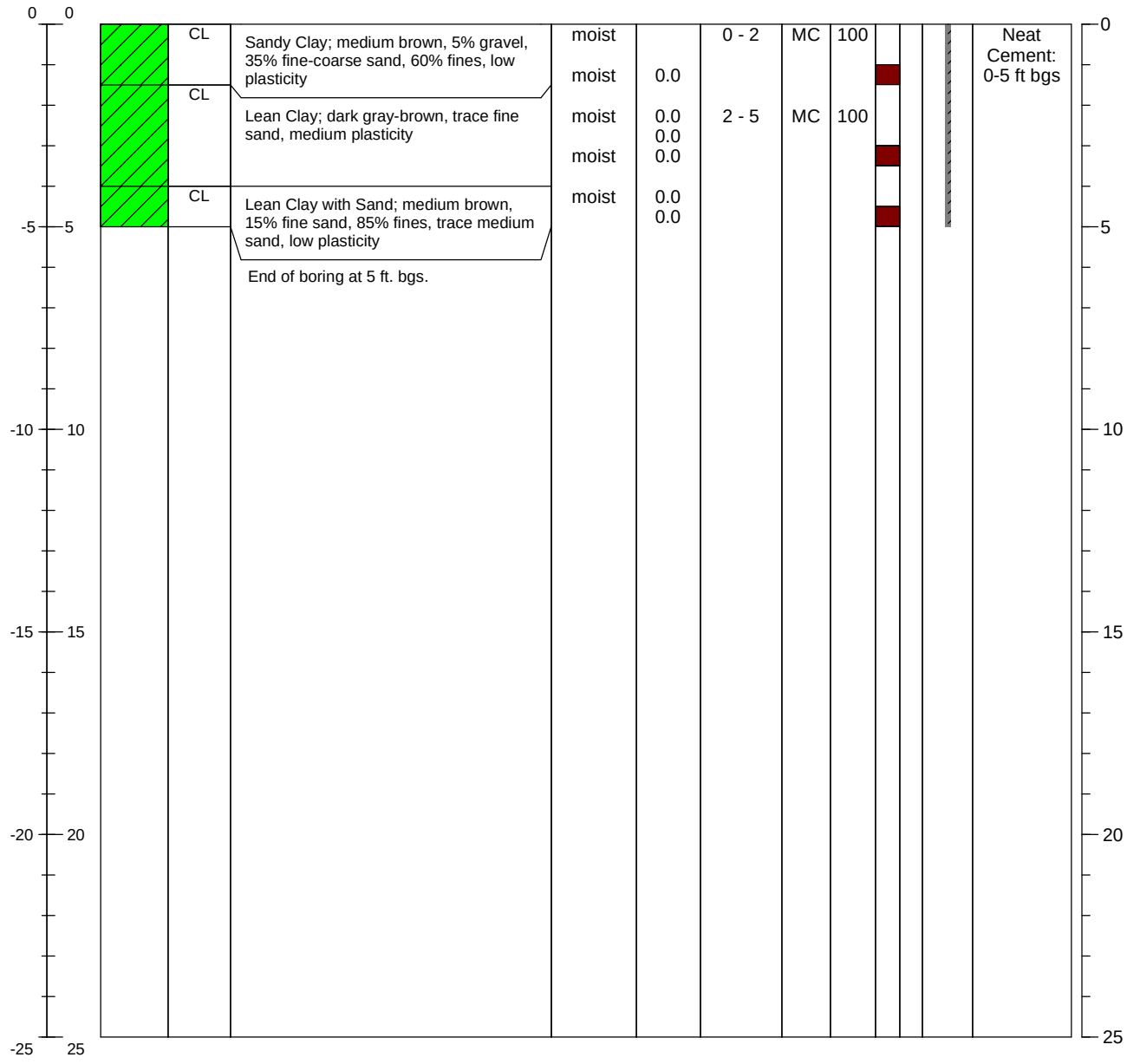
MC = Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-4**

Address **6800 Overlake Place** **Newark** **California**	Drilling Contractor **Cascade Drilling**	Drilling Method **Direct Push**	Backfill Material **Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**



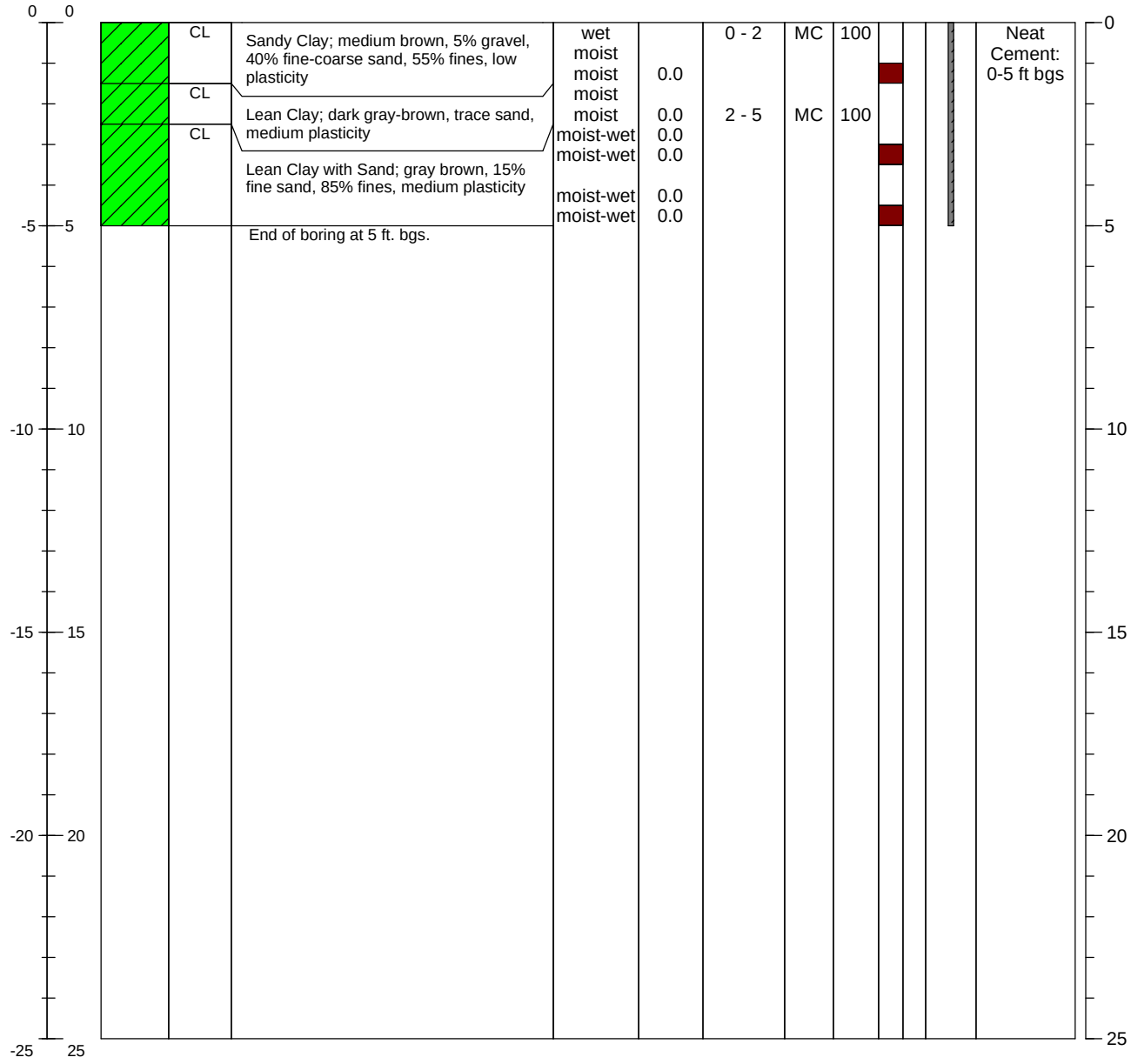
MC=Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-5**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**



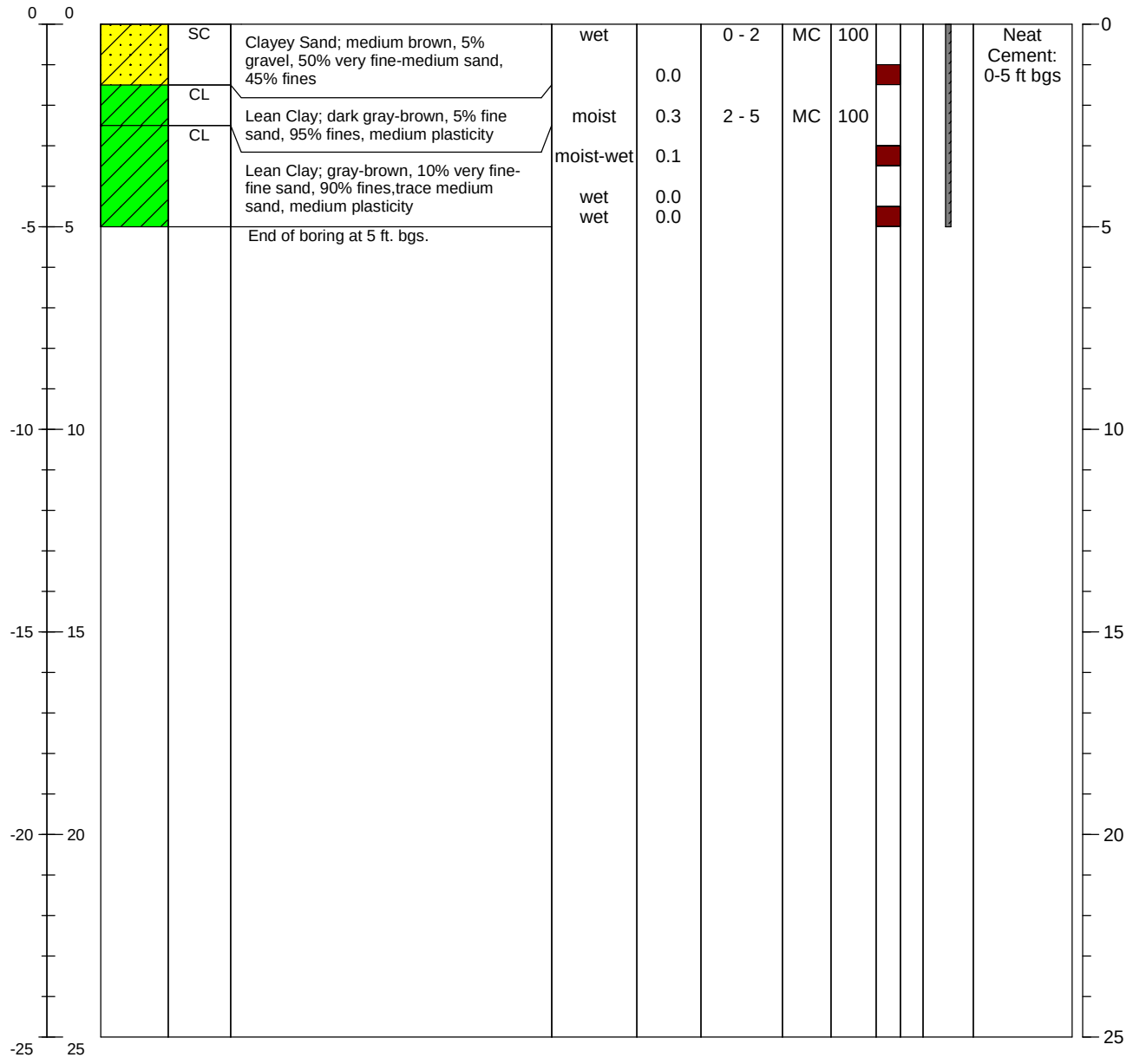
MC = Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-6**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**



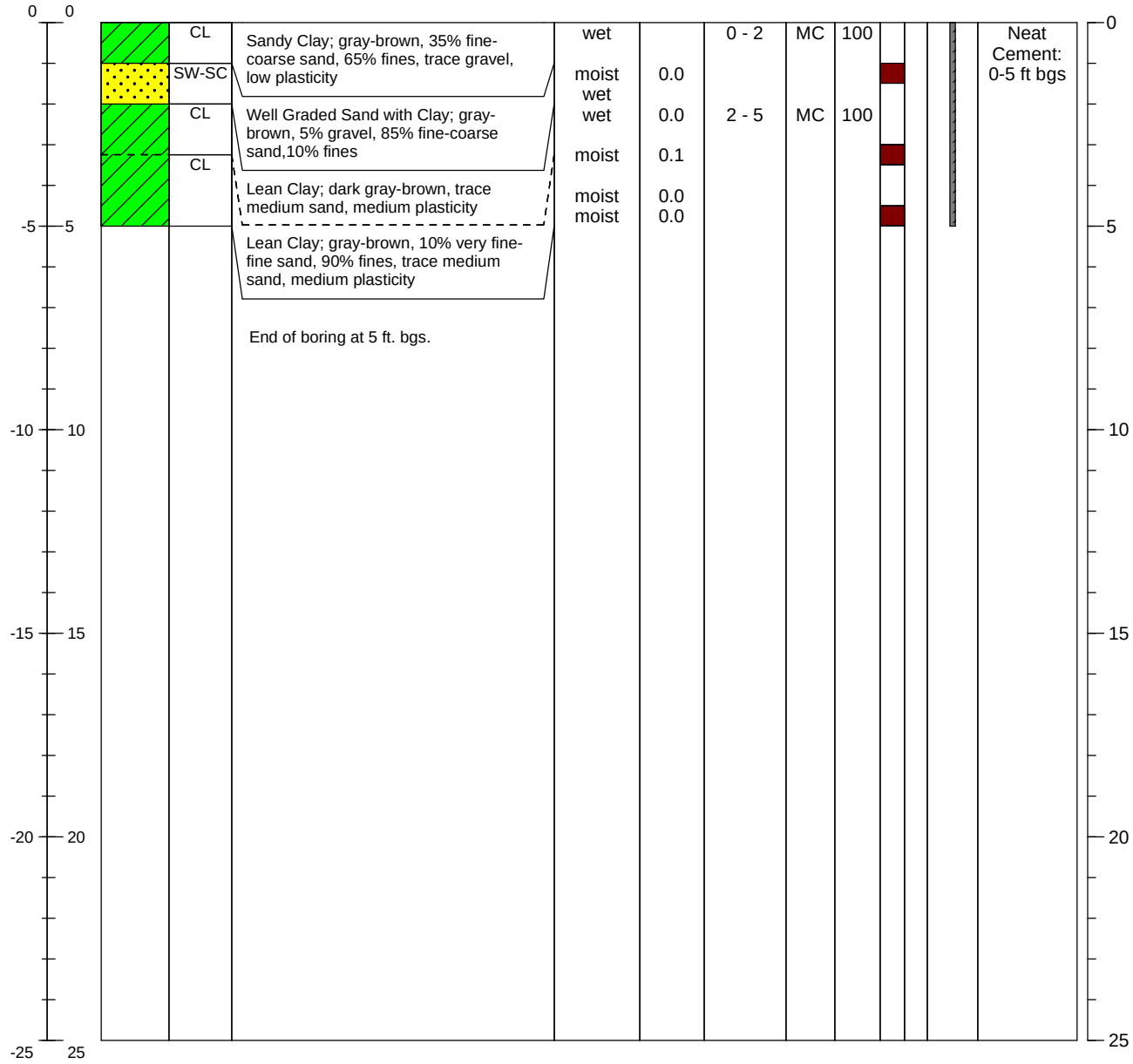
MC = Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-7**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**



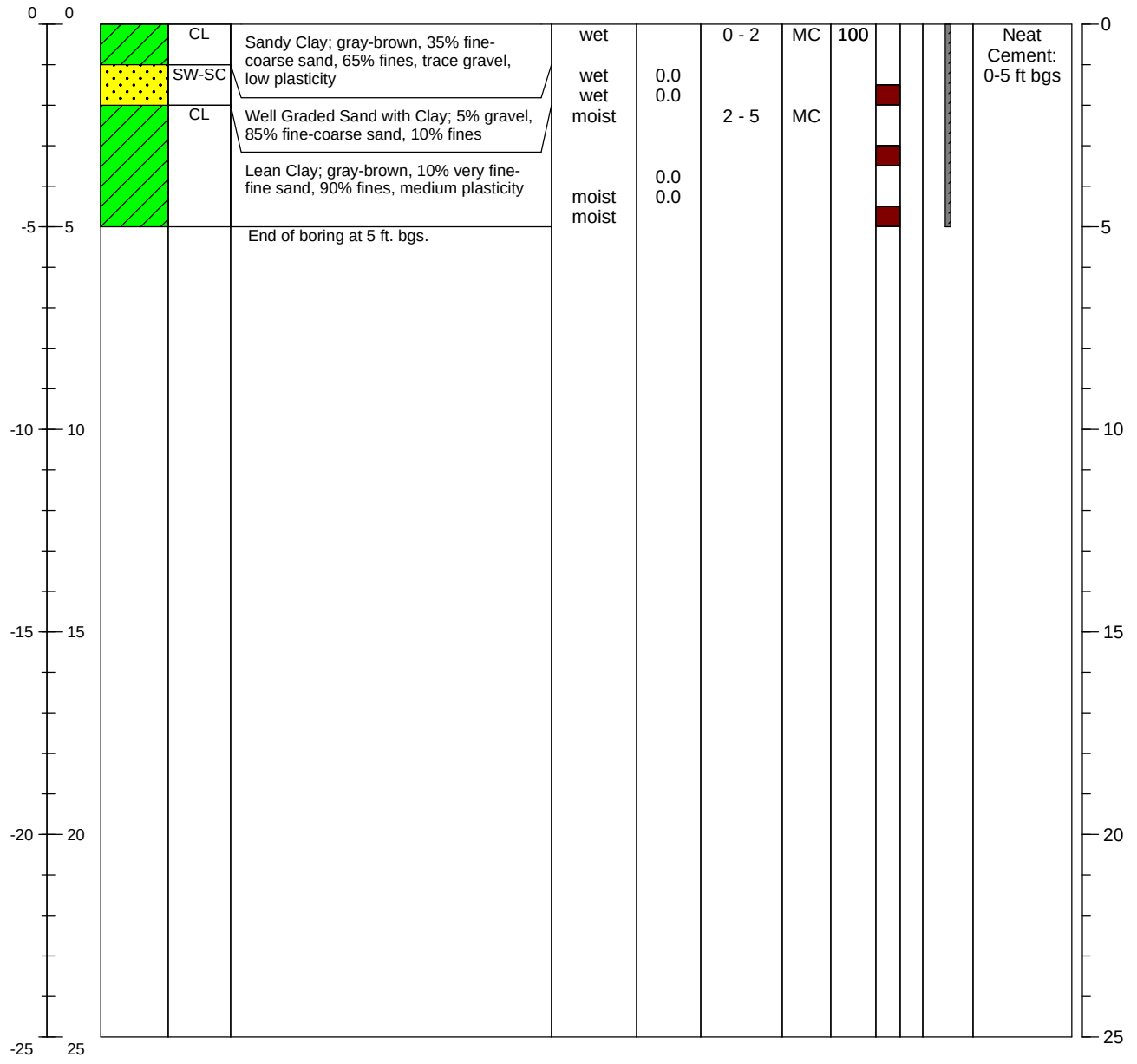
MC = Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-8**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place			
Newark **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
R. Bussard / **A. Lojo**	**Macro-core**	**5 ft.**	**2.25 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**4/2/14**	**4/2/14**

LITHOLOGY **SAMPLING DATA**



MC = Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-9**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		CL	Sandy Clay; medium brown, 30% fine-coarse sand, 70% fines, trace gravel, low plasticity	wet wet		0 -2	MC	100				Neat Cement: 0-5 ft bgs	0
			CL	Lean Clay; gray-brown, 10% very fine-fine sand, 90% fines, medium plasticity	moist moist moist		2 - 5	MC	100					
-5	5			End of boring at 5 ft. bgs.										5
-10	10													10
-15	15													15
-20	20													20
-25	25													25

MC = Macro-core

▽ Water Level During Drilling

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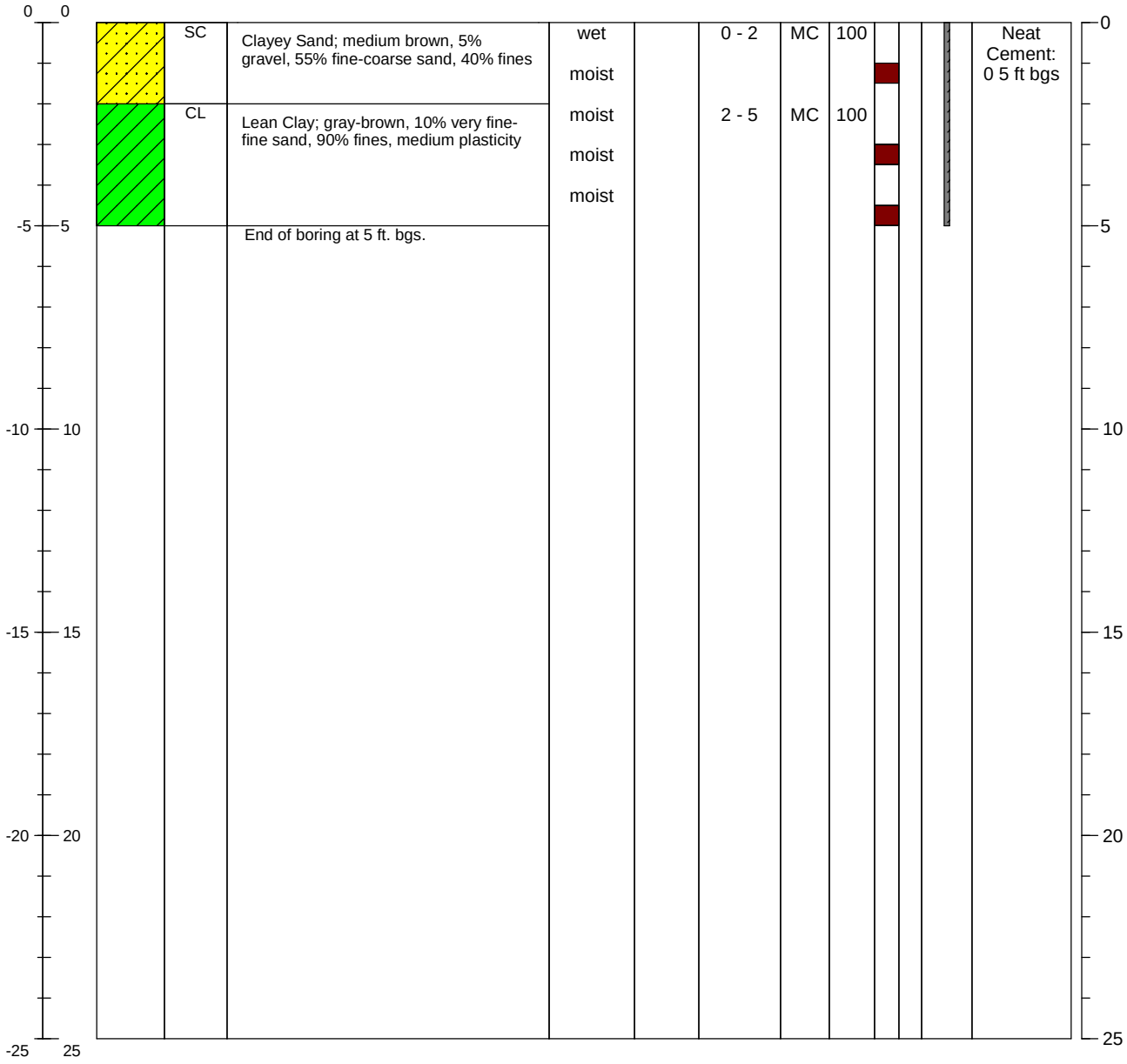
Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-10**

Address **6800 Overlake Place** **Newark** **California**	Drilling Contractor **Cascade Drilling**	Drilling Method **Direct Push**	Backfill Material **Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**



MC = Macro-core

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-11**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place			
Newark **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
R. Bussard / **A. Lojo**	**Macro-core**	**5 ft.**	**2.25 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**4/2/14**	**4/2/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		CL	Sandy Clay; medium brown, 5% gravel, 40% fine-coarse sand, 55% fines, low plasticity	wet		0 - 2	MC	100				Neat Cement: 0-5 ft bgs	0
			CL	Lean Clay; gray-brown, 10% very fine-fine sand, 90% fines, medium plasticity	moist									
					moist		2 - 5	MC	100					
					moist-wet									
-5	5			End of boring at 5 ft. bgs.										5
-10	10													10
-15	15													15
-20	20													20
-25	25													25

MC = Macro-core

▽ Water Level During Drilling

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Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-12**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place			
Newark **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
R. Bussard / **A. Lojo**	**Macro-core**	**5 ft.**	**2.25 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**4/2/14**	**4/2/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		CL	Sandy Clay; medium brown, 5% gravel, 40% fine-coarse sand, 55% fines, low plasticity	wet / moist		0 - 2	MC	100				Neat Cement: 0-5 ft bgs	0
			CL	Lean Clay with Sand; gray-brown, 15% very fine-fine sand, 85% fines, trace medium sand, medium plasticity	moist / moist-wet / moist-wet		2 - 5	MC	100					
-5	5			End of boring at 5 ft. bgs.										5
-10	10													10
-15	15													15
-20	20													20
-25	25													25

MC = Macro-core

▽ Water Level During Drilling

antea group

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Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-13**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Cascade Drilling**	**Direct Push**	**Neat Cement**
Logged By / Approved By **R. Bussard** / **A. Lojo**	Sampling Method **Macro-core**	Boring Depth **5 ft.**	Boring Diameter **2.25 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **4/2/14**	Date Drilling Completed **4/2/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		CL	Sandy Clay; medum brown, 5% gravel, 40% fine-coarse sand, 55% fines, low plasticity	wet		0 - 2	MC	100				Neat Cement 0-5 ft bgs	0
			CL	Lean Clay; gray-brown, 10% very fine-fine sand, 90% fines, medium plasticity	wet moist		2 - 5	MC	100					
-5	5			End of boring at 5 ft. bgs.	moist moist									5
-10	10													10
-15	15													15
-20	20													20
-25	25													25

MC = Macro-core

▽ Water Level During Drilling

antea group

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Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-14**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Woodward Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
S. Morden / **A. Lojo**	**Slide Hammer**	**7.5 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**7/22/14**	**7/22/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		ML	Grass Surface										0
				Silt with Sand; brown, very fine sand, low plasticity, trace roots	dry	40.1	0 - 5	SH	100				Neat Cement: 0-7.5 ft bgs	
				same as above; trace fine gravel encountered plastic liner @ 3 ft	dry	108.6								
					dry	20.5								
			CL	Lean Clay with Sand; brown, very fine sand, medium plasticity, trace roots	dry	11.7								
-5	5				dry	58.1	5-7.5	SH	100					5
			CL	Lean Clay; dark brown, medium-low plasticity	dry	3.2								
					dry	3.4								
				End of boring at 7.5 ft. bgs.										
-10	10													10
-15	15													15
-20	20													20
-25	25													25

SH = Slide Hammer

▽ Water Level During Drilling

antea group

INOGEN®

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-15**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Woodward Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
S. Morden / **A. Lojo**	**Slide Hammer**	**7 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**7/22/14**	**7/22/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		ML	Grass Surface										0
				Silt with Sand; brown, very fine sand, low plasticity, roots	dry	5.0	0 - 5	SH	100				Neat Cement: 0-7 ft bgs	
				same as above, trace coarse gravel	dry	9.2								
					dry	50.5								
-5	5				dry	53.0								5
				No Recovery	dry	40.2	5 - 7	SH	0.25					
					dry									
			ML	Silt with Sand; brown, very fine-fine sand, low-no plasticity										
-10	10			End of boring at 7 ft. bgs.										10
-15	15													15
-20	20													20
-25	25													25

SH = Slide Hammer

▽ Water Level During Drilling

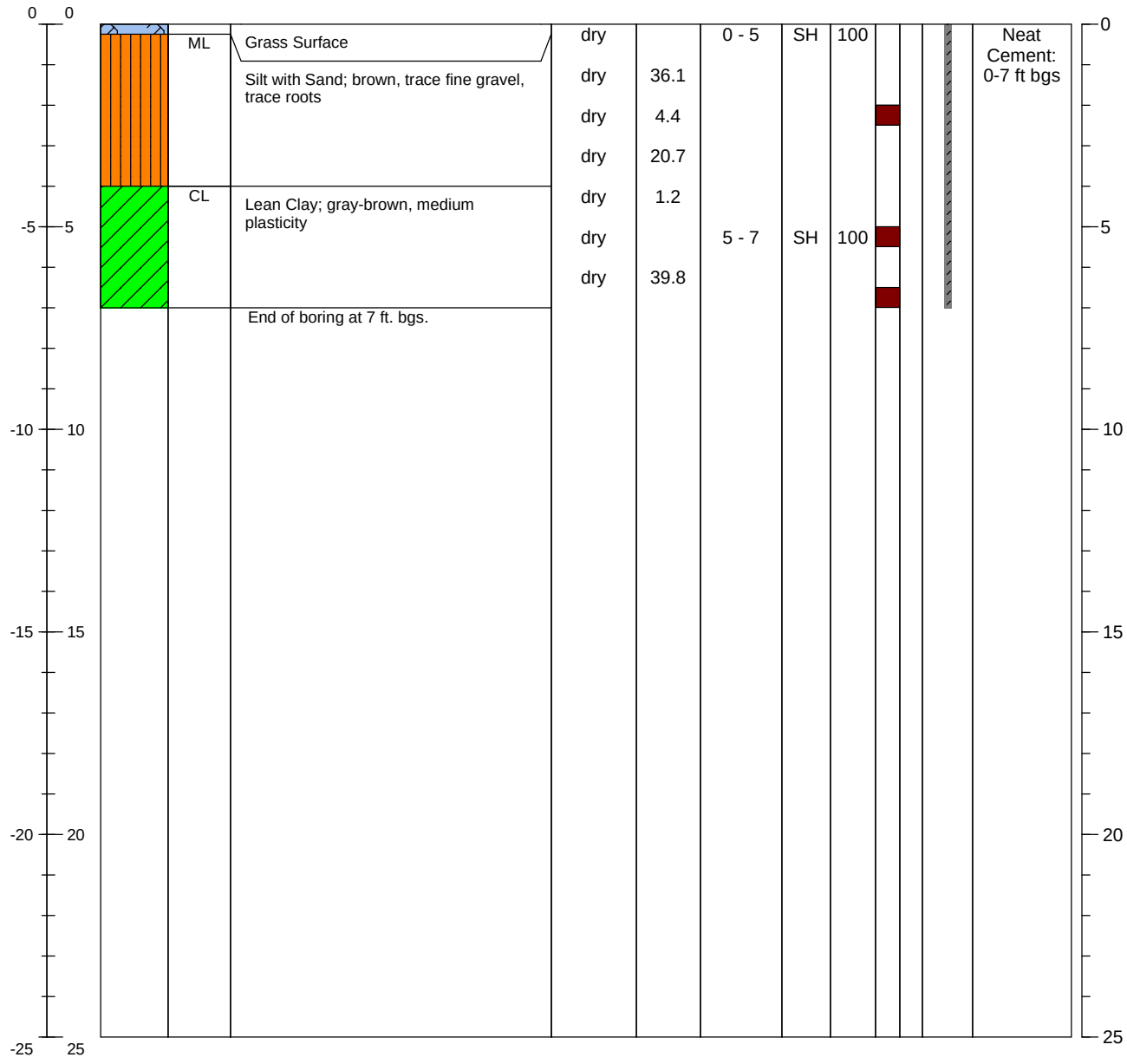
antea group

INOGEN®

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-16**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Woodward Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
S. Morden / **A. Lojo**	**Slide Hammer**	**7 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**7/22/14**	**7/22/14**

LITHOLOGY **SAMPLING DATA**



SH = Slide Hammer

▽ Water Level During Drilling

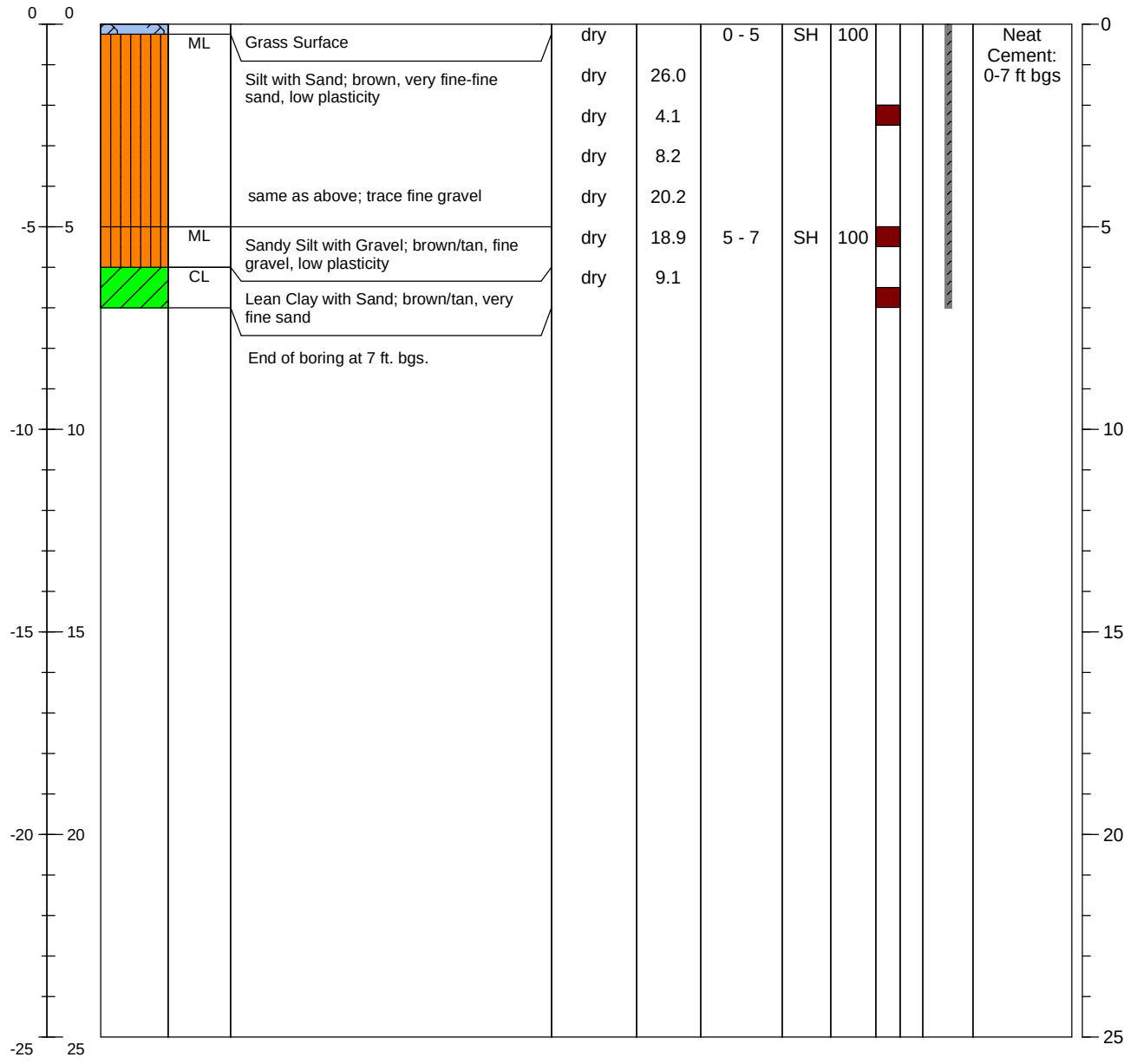
antea group

INOGEN®

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-17**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Woodward Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By **S. Morden** / **A. Lojo**	Sampling Method **Slide Hammer**	Boring Depth **7 ft.**	Boring Diameter **3 in.**
Antea Group Project Number **PUBL07143**	Headspace Monitoring Device **PID**	Date Drilling Started **7/22/14**	Date Drilling Completed **7/22/14**

LITHOLOGY **SAMPLING DATA**



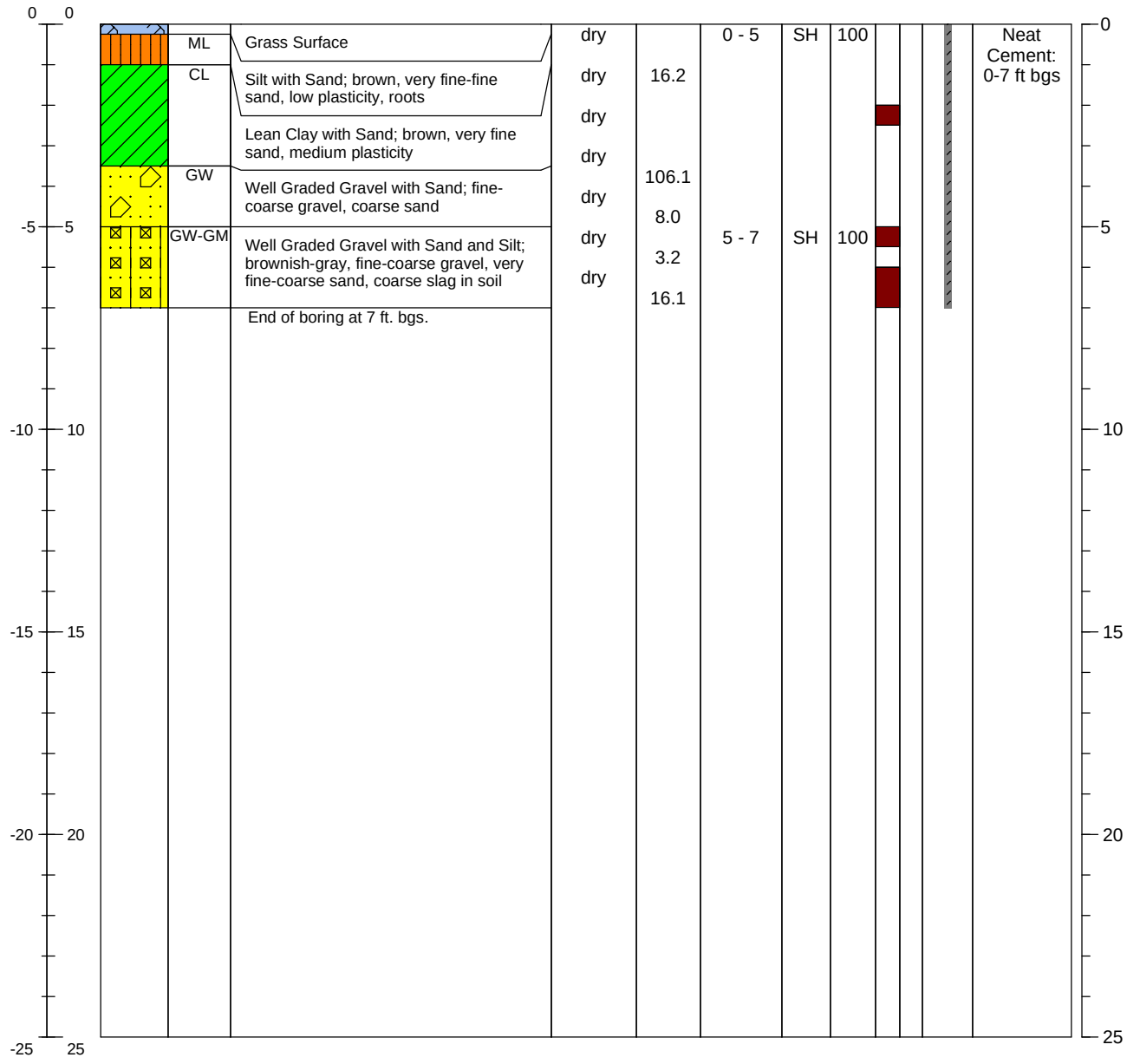
SH = Slide Hammer

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-18**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Woodward Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
S. Morden / **A. Lojo**	**Slide Hammer**	**7 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**7/22/14**	**7/22/14**

LITHOLOGY **SAMPLING DATA**



SH = Slide Hammer

▽ Water Level During Drilling

Project Name	Soil Boring Log	Soil Boring Number
Public Storage		**B-19**

Address	Drilling Contractor	Drilling Method	Backfill Material
6800 Overlake Place **Newark** **California**	**Woodward Drilling**	**Hand Auger**	**Neat Cement**
Logged By / Approved By	Sampling Method	Boring Depth	Boring Diameter
S. Morden / **A. Lojo**	**Slide Hammer**	**7 ft.**	**3 in.**
Antea Group Project Number	Headspace Monitoring Device	Date Drilling Started	Date Drilling Completed
PUBL07143	**PID**	**7/22/14**	**7/22/14**

LITHOLOGY **SAMPLING DATA**

Elevation	Depth	Graphic Log	USCS	Visual Description	Moisture Content	Headspace (ppm)	Sample Interval (ft)	Sample Type	Recovery (%)	Laboratory Analysis	Water Level	Backfill Diagram	Backfill Details	Depth
0	0		ML	Grass Surface	dry		0 - 5	SH	100				Neat Cement: 0 - 7 ft bgs	0
				Silt with Sand; brown, very fine sand, low plasticity, trace roots	dry	31.2								
					dry	18.0								
				same as above; trace fine gravel	dry	50.0								
			GW-GM	Well Graded Gravel with Silt and Sand; brown/gray, fine-coarse gravel, fine-coarse sand	dry	8.2								
-5	5				dry	62.2	5 - 7	SH	100					5
					dry	72.2								
				End of boring at 7 ft. bgs.										
-10	10													10
-15	15													15
-20	20													20
-25	25													25

SH = Slide Hammer

▽ Water Level During Drilling

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Appendix D

Laboratory Analytical Reports and Validation Forms

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/2014

Laboratory Results

Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Subject : 26 Soil Samples
Project Name : PS Newark Phase II
Project Number : PUBLO7143
P.O. Number : PUBLO7143

Dear Ms. Persaud,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab # 08263CA.
If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/2014

Subject : 26 Soil Samples
Project Name : PS Newark Phase II
Project Number : PUBLO7143
P.O. Number : PUBLO7143

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

Recoveries for some Matrix Spike/Matrix Spike Duplicate analytes were outside of control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.

KIFF Analytical LLC

Analysis Summary

Report Number : 87896

Date : 04/09/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :PS Newark Phase II
Project Number : PUBLO7143

			Sample Name	B-1d1.0	B-1d3.0		B-2d1.0		B-2d3.0		B-3d1.5		B-3d3.0		B-4d1.0	
			Sample Date	04/01/14	04/01/14		04/01/14		04/01/14		04/02/14		04/02/14		04/02/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Antimony	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	**0.98**	0.75	ND	0.75	ND
Arsenic	EPA 6010B	mg/Kg		0.75	**7.8**	0.75	**7.6**	0.75	**7.2**	0.75	**7.8**	0.75	**11**	0.75	**8.0**	3.7	**9.5**
Barium	EPA 6010B	mg/Kg		0.50	**350**	0.50	**220**	0.50	**220**	0.50	**230**	0.50	**260**	0.50	**200**	0.50	**430**
Beryllium	EPA 6010B	mg/Kg		0.25	**0.47**	0.25	**0.52**	0.25	**0.35**	0.25	**0.49**	0.25	**0.37**	0.25	**0.54**	0.25	**0.33**
Cadmium	EPA 6010B	mg/Kg		0.50	**6.7**	0.50	ND	0.50	**3.8**	0.50	**2.3**	0.50	**6.5**	0.50	ND	0.50	**8.3**
Chromium	EPA 6010B	mg/Kg		0.25	**780**	0.25	**85**	0.25	**400**	0.25	**190**	0.25	**490**	0.25	**83**	0.25	**1100**
Cobalt	EPA 6010B	mg/Kg		0.25	**11**	0.25	**14**	0.25	**9.9**	0.25	**14**	0.25	**12**	0.25	**13**	0.25	**7.2**
Copper	EPA 6010B	mg/Kg		0.50	**130**	0.50	**29**	0.50	**120**	0.50	**70**	0.50	**260**	0.50	**30**	0.50	**210**
Lead	EPA 6010B	mg/Kg		1.0	**510**	0.50	**10**	0.50	**300**	0.50	**150**	0.50	**420**	0.50	**10**	2.4	**700**
Mercury	EPA 7471A	mg/Kg		0.050	**0.080**	0.050	ND	0.050	**0.052**	0.050	ND	0.050	**0.074**	0.050	ND	0.050	**0.062**
Molybdenum	EPA 6010B	mg/Kg		0.25	**13**	0.25	**1.2**	0.25	**5.8**	0.25	**2.9**	0.25	**12**	0.25	**0.40**	0.25	**17**
Nickel	EPA 6010B	mg/Kg		0.25	**110**	0.25	**93**	0.25	**63**	0.25	**85**	0.25	**100**	0.25	**90**	0.25	**70**
Selenium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND
Silver	EPA 6010B	mg/Kg		0.25	**1.1**	0.25	ND	0.25	**0.63**	0.25	**0.40**	0.25	**0.96**	0.25	ND	1.2	ND
Thallium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	3.7	ND
Vanadium	EPA 6010B	mg/Kg		0.25	**64**	0.25	**46**	0.25	**52**	0.25	**52**	0.25	**56**	0.25	**47**	1.2	**65**
Zinc	EPA 6010B	mg/Kg		100	**4800**	1.0	**75**	99	**1800**	99	**1100**	98	**3200**	1.0	**73**	98	**4600**

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 87896

Date : 04/09/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :PS Newark Phase II
Project Number : PUBLO7143

			Sample Name	B-4d3.0	B-5d1.0		B-5d3.0		B-6d1.0		B-6d3.0		B-7d1.0		B-7d3.0	
			Sample Date	04/02/14	04/02/14		04/02/14		04/02/14		04/02/14		04/02/14		04/02/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Antimony	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND
Arsenic	EPA 6010B	mg/Kg		0.75	**7.2**	3.8	**9.8**	0.75	**8.0**	0.75	**20**	0.75	**8.3**	1.5	**12**	0.75	**8.2**
Barium	EPA 6010B	mg/Kg		0.50	**470**	0.50	**510**	0.50	**350**	0.50	**350**	0.50	**270**	0.50	**400**	0.50	**250**
Beryllium	EPA 6010B	mg/Kg		0.25	**0.49**	0.25	**0.37**	0.25	**0.54**	0.25	**0.51**	0.25	**0.56**	0.25	**0.53**	0.25	**0.57**
Cadmium	EPA 6010B	mg/Kg		0.50	**3.2**	0.50	**19**	0.50	ND	0.50	**5.0**	0.50	ND	0.50	**12**	0.50	ND
Chromium	EPA 6010B	mg/Kg		0.25	**380**	0.25	**1300**	0.25	**88**	0.25	**290**	0.25	**92**	0.25	**630**	0.25	**89**
Cobalt	EPA 6010B	mg/Kg		0.25	**11**	0.25	**6.0**	0.25	**13**	0.25	**6.4**	0.25	**14**	0.25	**9.9**	0.25	**15**
Copper	EPA 6010B	mg/Kg		0.50	**110**	0.50	**260**	0.50	**30**	0.50	**71**	0.50	**32**	0.98	**230**	0.50	**33**
Lead	EPA 6010B	mg/Kg		0.50	**250**	2.5	**1400**	0.50	**11**	0.50	**340**	0.50	**12**	0.98	**750**	0.50	**13**
Mercury	EPA 7471A	mg/Kg		0.050	**0.068**	0.050	**0.094**	0.050	ND	0.050	**0.084**	0.050	ND	0.050	**0.14**	0.050	ND
Molybdenum	EPA 6010B	mg/Kg		0.25	**4.8**	0.25	**23**	0.25	**0.64**	0.25	**7.0**	0.25	**0.56**	0.25	**7.8**	0.25	**1.0**
Nickel	EPA 6010B	mg/Kg		0.25	**77**	0.25	**66**	0.25	**91**	0.25	**44**	0.25	**93**	0.25	**73**	0.25	**97**
Selenium	EPA 6010B	mg/Kg		0.75	ND	3.8	ND	0.75	ND	0.75	**0.86**	0.75	ND	0.75	ND	0.75	ND
Silver	EPA 6010B	mg/Kg		0.25	**0.55**	1.2	**1.8**	0.25	ND	0.25	**0.68**	0.25	ND	0.49	**1.5**	0.25	ND
Thallium	EPA 6010B	mg/Kg		0.75	ND	3.8	ND	0.75	ND	0.75	ND	0.75	ND	1.5	ND	0.75	ND
Vanadium	EPA 6010B	mg/Kg		0.25	**55**	1.2	**69**	0.25	**48**	0.25	**50**	0.25	**49**	0.49	**65**	0.25	**50**
Zinc	EPA 6010B	mg/Kg		96	**1400**	100	**8100**	1.0	**77**	100	**2100**	1.0	**82**	98	**5200**	1.0	**87**

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 87896

Date : 04/09/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :PS Newark Phase II
Project Number : PUBLO7143

			Sample Name	B-8d1.5	B-8d3.0		B-9d1.5		B-9d3.0		B-10d1.0		B-10d3.0		B-11d1.0	
			Sample Date	04/02/14	04/02/14		04/02/14		04/02/14		04/02/14		04/02/14		04/02/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Antimony	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	3.8	ND	0.75	ND	0.75	ND
Arsenic	EPA 6010B	mg/Kg		0.75	**5.4**	0.75	**8.0**	0.75	**8.1**	0.75	**8.0**	3.8	**8.4**	0.75	**7.6**	3.6	**8.3**
Barium	EPA 6010B	mg/Kg		0.50	**170**	0.50	**260**	0.50	**240**	0.50	**220**	0.50	**500**	0.50	**230**	0.50	**440**
Beryllium	EPA 6010B	mg/Kg		0.25	**0.54**	0.25	**0.54**	0.25	**0.55**	0.25	**0.57**	0.25	**1.7**	0.25	**0.52**	0.25	**0.43**
Cadmium	EPA 6010B	mg/Kg		0.50	ND	0.50	ND	0.50	**2.0**	0.50	ND	0.50	**9.9**	0.50	ND	0.50	**9.8**
Chromium	EPA 6010B	mg/Kg		0.25	**88**	0.25	**91**	0.25	**220**	0.25	**88**	0.25	**2200**	0.25	**110**	0.25	**1200**
Cobalt	EPA 6010B	mg/Kg		0.25	**14**	0.25	**12**	0.25	**14**	0.25	**15**	0.25	**3.9**	0.25	**12**	0.25	**8.1**
Copper	EPA 6010B	mg/Kg		0.50	**34**	0.50	**31**	0.50	**53**	0.50	**32**	2.5	**340**	0.50	**33**	0.50	**230**
Lead	EPA 6010B	mg/Kg		0.50	**22**	0.50	**14**	0.50	**160**	0.50	**17**	2.5	**640**	0.50	**39**	2.4	**680**
Mercury	EPA 7471A	mg/Kg		0.050	ND	0.050	ND	0.050	ND	0.050	**0.074**	0.050	**0.20**	0.050	ND	0.050	ND
Molybdenum	EPA 6010B	mg/Kg		0.25	**0.44**	0.25	**0.40**	0.25	**1.8**	0.25	**0.46**	0.25	**37**	0.25	**0.87**	0.25	**14**
Nickel	EPA 6010B	mg/Kg		0.25	**82**	0.25	**92**	0.25	**88**	0.25	**95**	0.25	**50**	0.25	**87**	0.25	**68**
Selenium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND
Silver	EPA 6010B	mg/Kg		0.25	ND	0.25	ND	0.25	**0.30**	0.25	ND	1.2	**1.6**	0.25	ND	1.2	ND
Thallium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	3.8	ND	0.75	ND	3.6	ND
Vanadium	EPA 6010B	mg/Kg		0.25	**49**	0.25	**49**	0.25	**53**	0.25	**49**	1.2	**84**	0.25	**46**	1.2	**61**
Zinc	EPA 6010B	mg/Kg		1.0	**120**	1.0	**110**	100	**1200**	1.0	**130**	100	**5600**	1.0	**200**	97	**4100**

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 87896

Date : 04/09/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :PS Newark Phase II
Project Number : PUBLO7143

			Sample Name	B-11d3.0	B-12d1.0		B-12d3.0		B-13d1.0		B-13d3.0	
			Sample Date	04/02/14	04/02/14		04/02/14		04/02/14		04/02/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Antimony	EPA 6010B	mg/Kg		0.75	**1.2**	0.75	ND	0.75	ND	1.5	ND	0.75	ND
Arsenic	EPA 6010B	mg/Kg		0.75	**7.4**	0.75	**8.3**	0.75	**7.7**	1.5	**13**	0.75	**8.0**
Barium	EPA 6010B	mg/Kg		0.50	**220**	0.50	**260**	0.50	**210**	0.50	**370**	0.50	**160**
Beryllium	EPA 6010B	mg/Kg		0.25	**0.47**	0.25	**0.53**	0.25	**0.48**	0.25	**0.40**	0.25	**0.53**
Cadmium	EPA 6010B	mg/Kg		0.50	ND	0.50	**4.9**	0.50	ND	0.50	**20**	0.50	ND
Chromium	EPA 6010B	mg/Kg		0.25	**83**	0.25	**510**	0.25	**85**	0.25	**730**	0.25	**82**
Cobalt	EPA 6010B	mg/Kg		0.25	**13**	0.25	**9.8**	0.25	**13**	0.25	**7.7**	0.25	**15**
Copper	EPA 6010B	mg/Kg		0.50	**23**	0.50	**110**	0.50	**33**	0.50	**310**	0.50	**32**
Lead	EPA 6010B	mg/Kg		0.50	**14**	0.50	**470**	0.50	**27**	1.0	**1300**	0.50	**8.8**
Mercury	EPA 7471A	mg/Kg		0.050	ND	0.050	**0.11**	0.050	ND	0.050	**0.32**	0.050	ND
Molybdenum	EPA 6010B	mg/Kg		0.25	**0.61**	0.25	**14**	0.25	**0.87**	0.25	**19**	0.25	**0.82**
Nickel	EPA 6010B	mg/Kg		0.25	**89**	0.25	**72**	0.25	**91**	0.25	**79**	0.25	**98**
Selenium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	1.5	ND	0.75	ND
Silver	EPA 6010B	mg/Kg		0.25	ND	0.25	**0.69**	0.25	ND	0.50	**2.9**	0.25	ND
Thallium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	1.5	ND	0.75	ND
Vanadium	EPA 6010B	mg/Kg		0.25	**42**	0.25	**60**	0.25	**43**	0.50	**67**	0.25	**45**
Zinc	EPA 6010B	mg/Kg		1.0	**95**	96	**2500**	1.0	**180**	100	**9600**	1.0	**60**

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Report Number : 87896

Date : 04/09/14

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Sample : **B-1d1.0** Matrix : Soil Lab Number : 87896-01

Sample Date :04/01/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:32
Arsenic	**7.8**	0.75	mg/Kg	EPA 6010B	04/08/14 12:32
Barium	**350**	0.50	mg/Kg	EPA 6010B	04/08/14 12:32
Beryllium	**0.47**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Cadmium	**6.7**	0.50	mg/Kg	EPA 6010B	04/08/14 12:32
Chromium	**780**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Cobalt	**11**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Copper	**130**	0.50	mg/Kg	EPA 6010B	04/08/14 12:32
Lead	**510**	1.0	mg/Kg	EPA 6010B	04/08/14 18:35
Molybdenum	**13**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Nickel	**110**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:32
Silver	**1.1**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:32
Vanadium	**64**	0.25	mg/Kg	EPA 6010B	04/08/14 12:32
Zinc	**4800**	100	mg/Kg	EPA 6010B	04/08/14 17:28
Mercury	**0.080**	0.050	mg/Kg	EPA 7471A	04/04/14 15:14

KIFF Analytical LLC

Report Number : 87896

Date : 04/09/14

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Sample : **B-1d3.0** Matrix : Soil Lab Number : 87896-02

Sample Date :04/01/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:47
Arsenic	**7.6**	0.75	mg/Kg	EPA 6010B	04/08/14 12:47
Barium	**220**	0.50	mg/Kg	EPA 6010B	04/08/14 12:47
Beryllium	**0.52**	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 12:47
Chromium	**85**	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Copper	**29**	0.50	mg/Kg	EPA 6010B	04/08/14 12:47
Lead	**10**	0.50	mg/Kg	EPA 6010B	04/08/14 12:47
Molybdenum	**1.2**	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Nickel	**93**	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:47
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:47
Vanadium	**46**	0.25	mg/Kg	EPA 6010B	04/08/14 12:47
Zinc	**75**	1.0	mg/Kg	EPA 6010B	04/08/14 12:47
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:18

KIFF Analytical LLC

Report Number : 87896

Date : 04/09/14

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Sample : **B-2d1.0** Matrix : Soil Lab Number : 87896-04

Sample Date :04/01/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:52
Arsenic	**7.2**	0.75	mg/Kg	EPA 6010B	04/08/14 12:52
Barium	**220**	0.50	mg/Kg	EPA 6010B	04/08/14 12:52
Beryllium	**0.35**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Cadmium	**3.8**	0.50	mg/Kg	EPA 6010B	04/08/14 12:52
Chromium	**400**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Cobalt	**9.9**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Copper	**120**	0.50	mg/Kg	EPA 6010B	04/08/14 12:52
Lead	**300**	0.50	mg/Kg	EPA 6010B	04/08/14 12:52
Molybdenum	**5.8**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Nickel	**63**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:52
Silver	**0.63**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:52
Vanadium	**52**	0.25	mg/Kg	EPA 6010B	04/08/14 12:52
Zinc	**1800**	99	mg/Kg	EPA 6010B	04/08/14 17:32
Mercury	**0.052**	0.050	mg/Kg	EPA 7471A	04/04/14 15:20

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-2d3.0** Matrix : Soil Lab Number : 87896-05
Sample Date :04/01/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:57
Arsenic	**7.8**	0.75	mg/Kg	EPA 6010B	04/08/14 12:57
Barium	**230**	0.50	mg/Kg	EPA 6010B	04/08/14 12:57
Beryllium	**0.49**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Cadmium	**2.3**	0.50	mg/Kg	EPA 6010B	04/08/14 12:57
Chromium	**190**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Copper	**70**	0.50	mg/Kg	EPA 6010B	04/08/14 12:57
Lead	**150**	0.50	mg/Kg	EPA 6010B	04/08/14 12:57
Molybdenum	**2.9**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Nickel	**85**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:57
Silver	**0.40**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 12:57
Vanadium	**52**	0.25	mg/Kg	EPA 6010B	04/08/14 12:57
Zinc	**1100**	99	mg/Kg	EPA 6010B	04/08/14 17:40
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:21

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-3d1.5** Matrix : Soil Lab Number : 87896-07
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	**0.98**	0.75	mg/Kg	EPA 6010B	04/08/14 13:02
Arsenic	**11**	0.75	mg/Kg	EPA 6010B	04/08/14 13:02
Barium	**260**	0.50	mg/Kg	EPA 6010B	04/08/14 13:02
Beryllium	**0.37**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Cadmium	**6.5**	0.50	mg/Kg	EPA 6010B	04/08/14 13:02
Chromium	**490**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Copper	**260**	0.50	mg/Kg	EPA 6010B	04/08/14 13:02
Lead	**420**	0.50	mg/Kg	EPA 6010B	04/08/14 13:02
Molybdenum	**12**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Nickel	**100**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:02
Silver	**0.96**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:02
Vanadium	**56**	0.25	mg/Kg	EPA 6010B	04/08/14 13:02
Zinc	**3200**	98	mg/Kg	EPA 6010B	04/08/14 17:45
Mercury	**0.074**	0.050	mg/Kg	EPA 7471A	04/04/14 15:23

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-3d3.0** Matrix : Soil Lab Number : 87896-08
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:14
Arsenic	**8.0**	0.75	mg/Kg	EPA 6010B	04/08/14 13:14
Barium	**200**	0.50	mg/Kg	EPA 6010B	04/08/14 13:14
Beryllium	**0.54**	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 13:14
Chromium	**83**	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Cobalt	**13**	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Copper	**30**	0.50	mg/Kg	EPA 6010B	04/08/14 13:14
Lead	**10**	0.50	mg/Kg	EPA 6010B	04/08/14 13:14
Molybdenum	**0.40**	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Nickel	**90**	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:14
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:14
Vanadium	**47**	0.25	mg/Kg	EPA 6010B	04/08/14 13:14
Zinc	**73**	1.0	mg/Kg	EPA 6010B	04/08/14 13:14
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:24

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-4d1.0** Matrix : Soil Lab Number : 87896-10
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:19
Arsenic	**9.5**	3.7	mg/Kg	EPA 6010B	04/08/14 18:40
Barium	**430**	0.50	mg/Kg	EPA 6010B	04/08/14 13:19
Beryllium	**0.33**	0.25	mg/Kg	EPA 6010B	04/08/14 13:19
Cadmium	**8.3**	0.50	mg/Kg	EPA 6010B	04/08/14 13:19
Chromium	**1100**	0.25	mg/Kg	EPA 6010B	04/08/14 13:19
Cobalt	**7.2**	0.25	mg/Kg	EPA 6010B	04/08/14 13:19
Copper	**210**	0.50	mg/Kg	EPA 6010B	04/08/14 13:19
Lead	**700**	2.4	mg/Kg	EPA 6010B	04/08/14 18:40
Molybdenum	**17**	0.25	mg/Kg	EPA 6010B	04/08/14 13:19
Nickel	**70**	0.25	mg/Kg	EPA 6010B	04/08/14 13:19
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:19
Silver	< 1.2	1.2	mg/Kg	EPA 6010B	04/08/14 18:40
Thallium	< 3.7	3.7	mg/Kg	EPA 6010B	04/08/14 18:40
Vanadium	**65**	1.2	mg/Kg	EPA 6010B	04/08/14 18:40
Zinc	**4600**	98	mg/Kg	EPA 6010B	04/08/14 17:49
Mercury	**0.062**	0.050	mg/Kg	EPA 7471A	04/04/14 15:29

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-4d3.0** Matrix : Soil Lab Number : 87896-11
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:24
Arsenic	**7.2**	0.75	mg/Kg	EPA 6010B	04/08/14 13:24
Barium	**470**	0.50	mg/Kg	EPA 6010B	04/08/14 13:24
Beryllium	**0.49**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Cadmium	**3.2**	0.50	mg/Kg	EPA 6010B	04/08/14 13:24
Chromium	**380**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Cobalt	**11**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Copper	**110**	0.50	mg/Kg	EPA 6010B	04/08/14 13:24
Lead	**250**	0.50	mg/Kg	EPA 6010B	04/08/14 13:24
Molybdenum	**4.8**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Nickel	**77**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:24
Silver	**0.55**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:24
Vanadium	**55**	0.25	mg/Kg	EPA 6010B	04/08/14 13:24
Zinc	**1400**	96	mg/Kg	EPA 6010B	04/08/14 17:53
Mercury	**0.068**	0.050	mg/Kg	EPA 7471A	04/04/14 15:30

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-5d1.0** Matrix : Soil Lab Number : 87896-13
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:29
Arsenic	**9.8**	3.8	mg/Kg	EPA 6010B	04/08/14 18:45
Barium	**510**	0.50	mg/Kg	EPA 6010B	04/08/14 13:29
Beryllium	**0.37**	0.25	mg/Kg	EPA 6010B	04/08/14 13:29
Cadmium	**19**	0.50	mg/Kg	EPA 6010B	04/08/14 13:29
Chromium	**1300**	0.25	mg/Kg	EPA 6010B	04/08/14 13:29
Cobalt	**6.0**	0.25	mg/Kg	EPA 6010B	04/08/14 13:29
Copper	**260**	0.50	mg/Kg	EPA 6010B	04/08/14 13:29
Lead	**1400**	2.5	mg/Kg	EPA 6010B	04/08/14 18:45
Molybdenum	**23**	0.25	mg/Kg	EPA 6010B	04/08/14 13:29
Nickel	**66**	0.25	mg/Kg	EPA 6010B	04/08/14 13:29
Selenium	< 3.8	3.8	mg/Kg	EPA 6010B	04/08/14 18:45
Silver	**1.8**	1.2	mg/Kg	EPA 6010B	04/08/14 18:45
Thallium	< 3.8	3.8	mg/Kg	EPA 6010B	04/08/14 18:45
Vanadium	**69**	1.2	mg/Kg	EPA 6010B	04/08/14 18:45
Zinc	**8100**	100	mg/Kg	EPA 6010B	04/08/14 17:57
Mercury	**0.094**	0.050	mg/Kg	EPA 7471A	04/04/14 15:32

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-5d3.0** Matrix : Soil Lab Number : 87896-14
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:35
Arsenic	**8.0**	0.75	mg/Kg	EPA 6010B	04/08/14 13:35
Barium	**350**	0.50	mg/Kg	EPA 6010B	04/08/14 13:35
Beryllium	**0.54**	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 13:35
Chromium	**88**	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Cobalt	**13**	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Copper	**30**	0.50	mg/Kg	EPA 6010B	04/08/14 13:35
Lead	**11**	0.50	mg/Kg	EPA 6010B	04/08/14 13:35
Molybdenum	**0.64**	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Nickel	**91**	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:35
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:35
Vanadium	**48**	0.25	mg/Kg	EPA 6010B	04/08/14 13:35
Zinc	**77**	1.0	mg/Kg	EPA 6010B	04/08/14 13:35
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:34

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-6d1.0** Matrix : Soil Lab Number : 87896-16
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:40
Arsenic	**20**	0.75	mg/Kg	EPA 6010B	04/08/14 13:40
Barium	**350**	0.50	mg/Kg	EPA 6010B	04/08/14 13:40
Beryllium	**0.51**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Cadmium	**5.0**	0.50	mg/Kg	EPA 6010B	04/08/14 13:40
Chromium	**290**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Cobalt	**6.4**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Copper	**71**	0.50	mg/Kg	EPA 6010B	04/08/14 13:40
Lead	**340**	0.50	mg/Kg	EPA 6010B	04/08/14 13:40
Molybdenum	**7.0**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Nickel	**44**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Selenium	**0.86**	0.75	mg/Kg	EPA 6010B	04/08/14 13:40
Silver	**0.68**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:40
Vanadium	**50**	0.25	mg/Kg	EPA 6010B	04/08/14 13:40
Zinc	**2100**	100	mg/Kg	EPA 6010B	04/08/14 18:01
Mercury	**0.084**	0.050	mg/Kg	EPA 7471A	04/04/14 15:35

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-6d3.0** Matrix : Soil Lab Number : 87896-17
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:45
Arsenic	**8.3**	0.75	mg/Kg	EPA 6010B	04/08/14 13:45
Barium	**270**	0.50	mg/Kg	EPA 6010B	04/08/14 13:45
Beryllium	**0.56**	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 13:45
Chromium	**92**	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Copper	**32**	0.50	mg/Kg	EPA 6010B	04/08/14 13:45
Lead	**12**	0.50	mg/Kg	EPA 6010B	04/08/14 13:45
Molybdenum	**0.56**	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Nickel	**93**	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:45
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:45
Vanadium	**49**	0.25	mg/Kg	EPA 6010B	04/08/14 13:45
Zinc	**82**	1.0	mg/Kg	EPA 6010B	04/08/14 13:45
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:37

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-7d1.0** Matrix : Soil Lab Number : 87896-19
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:50
Arsenic	**12**	1.5	mg/Kg	EPA 6010B	04/08/14 18:50
Barium	**400**	0.50	mg/Kg	EPA 6010B	04/08/14 13:50
Beryllium	**0.53**	0.25	mg/Kg	EPA 6010B	04/08/14 13:50
Cadmium	**12**	0.50	mg/Kg	EPA 6010B	04/08/14 13:50
Chromium	**630**	0.25	mg/Kg	EPA 6010B	04/08/14 13:50
Cobalt	**9.9**	0.25	mg/Kg	EPA 6010B	04/08/14 13:50
Copper	**230**	0.98	mg/Kg	EPA 6010B	04/08/14 18:50
Lead	**750**	0.98	mg/Kg	EPA 6010B	04/08/14 18:50
Molybdenum	**7.8**	0.25	mg/Kg	EPA 6010B	04/08/14 13:50
Nickel	**73**	0.25	mg/Kg	EPA 6010B	04/08/14 13:50
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:50
Silver	**1.5**	0.49	mg/Kg	EPA 6010B	04/08/14 18:50
Thallium	< 1.5	1.5	mg/Kg	EPA 6010B	04/08/14 18:50
Vanadium	**65**	0.49	mg/Kg	EPA 6010B	04/08/14 18:50
Zinc	**5200**	98	mg/Kg	EPA 6010B	04/08/14 18:05
Mercury	**0.14**	0.050	mg/Kg	EPA 7471A	04/04/14 15:38

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-7d3.0** Matrix : Soil Lab Number : 87896-20
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:55
Arsenic	**8.2**	0.75	mg/Kg	EPA 6010B	04/08/14 13:55
Barium	**250**	0.50	mg/Kg	EPA 6010B	04/08/14 13:55
Beryllium	**0.57**	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 13:55
Chromium	**89**	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Cobalt	**15**	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Copper	**33**	0.50	mg/Kg	EPA 6010B	04/08/14 13:55
Lead	**13**	0.50	mg/Kg	EPA 6010B	04/08/14 13:55
Molybdenum	**1.0**	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Nickel	**97**	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:55
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 13:55
Vanadium	**50**	0.25	mg/Kg	EPA 6010B	04/08/14 13:55
Zinc	**87**	1.0	mg/Kg	EPA 6010B	04/08/14 13:55
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:40

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-8d1.5** Matrix : Soil Lab Number : 87896-22
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:00
Arsenic	**5.4**	0.75	mg/Kg	EPA 6010B	04/08/14 14:00
Barium	**170**	0.50	mg/Kg	EPA 6010B	04/08/14 14:00
Beryllium	**0.54**	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 14:00
Chromium	**88**	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Copper	**34**	0.50	mg/Kg	EPA 6010B	04/08/14 14:00
Lead	**22**	0.50	mg/Kg	EPA 6010B	04/08/14 14:00
Molybdenum	**0.44**	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Nickel	**82**	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:00
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:00
Vanadium	**49**	0.25	mg/Kg	EPA 6010B	04/08/14 14:00
Zinc	**120**	1.0	mg/Kg	EPA 6010B	04/08/14 14:00
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:41

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-8d3.0** Matrix : Soil Lab Number : 87896-23
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:11
Arsenic	**8.0**	0.75	mg/Kg	EPA 6010B	04/08/14 14:11
Barium	**260**	0.50	mg/Kg	EPA 6010B	04/08/14 14:11
Beryllium	**0.54**	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 14:11
Chromium	**91**	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Copper	**31**	0.50	mg/Kg	EPA 6010B	04/08/14 14:11
Lead	**14**	0.50	mg/Kg	EPA 6010B	04/08/14 14:11
Molybdenum	**0.40**	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Nickel	**92**	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:11
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:11
Vanadium	**49**	0.25	mg/Kg	EPA 6010B	04/08/14 14:11
Zinc	**110**	1.0	mg/Kg	EPA 6010B	04/08/14 14:11
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:43

KIFF Analytical LLC

Report Number : 87896

Date : 04/09/14

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Sample : **B-9d1.5** Matrix : Soil Lab Number : 87896-25

Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:16
Arsenic	**8.1**	0.75	mg/Kg	EPA 6010B	04/08/14 14:16
Barium	**240**	0.50	mg/Kg	EPA 6010B	04/08/14 14:16
Beryllium	**0.55**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Cadmium	**2.0**	0.50	mg/Kg	EPA 6010B	04/08/14 14:16
Chromium	**220**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Copper	**53**	0.50	mg/Kg	EPA 6010B	04/08/14 14:16
Lead	**160**	0.50	mg/Kg	EPA 6010B	04/08/14 14:16
Molybdenum	**1.8**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Nickel	**88**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:16
Silver	**0.30**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:16
Vanadium	**53**	0.25	mg/Kg	EPA 6010B	04/08/14 14:16
Zinc	**1200**	100	mg/Kg	EPA 6010B	04/08/14 18:09
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:48

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-9d3.0** Matrix : Soil Lab Number : 87896-26
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:21
Arsenic	**8.0**	0.75	mg/Kg	EPA 6010B	04/08/14 14:21
Barium	**220**	0.50	mg/Kg	EPA 6010B	04/08/14 14:21
Beryllium	**0.57**	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 14:21
Chromium	**88**	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Cobalt	**15**	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Copper	**32**	0.50	mg/Kg	EPA 6010B	04/08/14 14:21
Lead	**17**	0.50	mg/Kg	EPA 6010B	04/08/14 14:21
Molybdenum	**0.46**	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Nickel	**95**	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:21
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:21
Vanadium	**49**	0.25	mg/Kg	EPA 6010B	04/08/14 14:21
Zinc	**130**	1.0	mg/Kg	EPA 6010B	04/08/14 14:21
Mercury	**0.074**	0.050	mg/Kg	EPA 7471A	04/04/14 15:49

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-10d1.0** Matrix : Soil Lab Number : 87896-28
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 3.8	3.8	mg/Kg	EPA 6010B	04/08/14 18:56
Arsenic	**8.4**	3.8	mg/Kg	EPA 6010B	04/08/14 18:56
Barium	**500**	0.50	mg/Kg	EPA 6010B	04/08/14 14:26
Beryllium	**1.7**	0.25	mg/Kg	EPA 6010B	04/08/14 14:26
Cadmium	**9.9**	0.50	mg/Kg	EPA 6010B	04/08/14 14:26
Chromium	**2200**	0.25	mg/Kg	EPA 6010B	04/08/14 14:26
Cobalt	**3.9**	0.25	mg/Kg	EPA 6010B	04/08/14 14:26
Copper	**340**	2.5	mg/Kg	EPA 6010B	04/08/14 18:56
Lead	**640**	2.5	mg/Kg	EPA 6010B	04/08/14 18:56
Molybdenum	**37**	0.25	mg/Kg	EPA 6010B	04/08/14 14:26
Nickel	**50**	0.25	mg/Kg	EPA 6010B	04/08/14 14:26
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:26
Silver	**1.6**	1.2	mg/Kg	EPA 6010B	04/08/14 18:56
Thallium	< 3.8	3.8	mg/Kg	EPA 6010B	04/08/14 18:56
Vanadium	**84**	1.2	mg/Kg	EPA 6010B	04/08/14 18:56
Zinc	**5600**	100	mg/Kg	EPA 6010B	04/08/14 18:20
Mercury	**0.20**	0.050	mg/Kg	EPA 7471A	04/04/14 15:51

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-10d3.0** Matrix : Soil Lab Number : 87896-29
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:31
Arsenic	**7.6**	0.75	mg/Kg	EPA 6010B	04/08/14 14:31
Barium	**230**	0.50	mg/Kg	EPA 6010B	04/08/14 14:31
Beryllium	**0.52**	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 14:31
Chromium	**110**	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Copper	**33**	0.50	mg/Kg	EPA 6010B	04/08/14 14:31
Lead	**39**	0.50	mg/Kg	EPA 6010B	04/08/14 14:31
Molybdenum	**0.87**	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Nickel	**87**	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:31
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:31
Vanadium	**46**	0.25	mg/Kg	EPA 6010B	04/08/14 14:31
Zinc	**200**	1.0	mg/Kg	EPA 6010B	04/08/14 14:31
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14 15:52

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-11d1.0** Matrix : Soil Lab Number : 87896-31
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:36
Arsenic	**8.3**	3.6	mg/Kg	EPA 6010B	04/08/14 19:00
Barium	**440**	0.50	mg/Kg	EPA 6010B	04/08/14 14:36
Beryllium	**0.43**	0.25	mg/Kg	EPA 6010B	04/08/14 14:36
Cadmium	**9.8**	0.50	mg/Kg	EPA 6010B	04/08/14 14:36
Chromium	**1200**	0.25	mg/Kg	EPA 6010B	04/08/14 14:36
Cobalt	**8.1**	0.25	mg/Kg	EPA 6010B	04/08/14 14:36
Copper	**230**	0.50	mg/Kg	EPA 6010B	04/08/14 14:36
Lead	**680**	2.4	mg/Kg	EPA 6010B	04/08/14 19:00
Molybdenum	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 14:36
Nickel	**68**	0.25	mg/Kg	EPA 6010B	04/08/14 14:36
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:36
Silver	< 1.2	1.2	mg/Kg	EPA 6010B	04/08/14 19:00
Thallium	< 3.6	3.6	mg/Kg	EPA 6010B	04/08/14 19:00
Vanadium	**61**	1.2	mg/Kg	EPA 6010B	04/08/14 19:00
Zinc	**4100**	97	mg/Kg	EPA 6010B	04/08/14 18:23
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/07/14 15:18

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-11d3.0** Matrix : Soil Lab Number : 87896-32
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	**1.2**	0.75	mg/Kg	EPA 6010B	04/07/14 15:39
Arsenic	**7.4**	0.75	mg/Kg	EPA 6010B	04/07/14 15:39
Barium	**220**	0.50	mg/Kg	EPA 6010B	04/07/14 15:39
Beryllium	**0.47**	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/07/14 15:39
Chromium	**83**	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Cobalt	**13**	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Copper	**23**	0.50	mg/Kg	EPA 6010B	04/07/14 15:39
Lead	**14**	0.50	mg/Kg	EPA 6010B	04/07/14 15:39
Molybdenum	**0.61**	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Nickel	**89**	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/07/14 15:39
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/07/14 15:39
Vanadium	**42**	0.25	mg/Kg	EPA 6010B	04/07/14 15:39
Zinc	**95**	1.0	mg/Kg	EPA 6010B	04/07/14 15:39
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/07/14 15:13

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-12d1.0** Matrix : Soil Lab Number : 87896-34
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:42
Arsenic	**8.3**	0.75	mg/Kg	EPA 6010B	04/08/14 14:42
Barium	**260**	0.50	mg/Kg	EPA 6010B	04/08/14 14:42
Beryllium	**0.53**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Cadmium	**4.9**	0.50	mg/Kg	EPA 6010B	04/08/14 14:42
Chromium	**510**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Cobalt	**9.8**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Copper	**110**	0.50	mg/Kg	EPA 6010B	04/08/14 14:42
Lead	**470**	0.50	mg/Kg	EPA 6010B	04/08/14 14:42
Molybdenum	**14**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Nickel	**72**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:42
Silver	**0.69**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:42
Vanadium	**60**	0.25	mg/Kg	EPA 6010B	04/08/14 14:42
Zinc	**2500**	96	mg/Kg	EPA 6010B	04/08/14 18:27
Mercury	**0.11**	0.050	mg/Kg	EPA 7471A	04/07/14 15:19

KIFF Analytical LLC

Report Number : 87896

Date : 04/09/14

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Sample : **B-12d3.0** Matrix : Soil Lab Number : 87896-35

Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:47
Arsenic	**7.7**	0.75	mg/Kg	EPA 6010B	04/08/14 14:47
Barium	**210**	0.50	mg/Kg	EPA 6010B	04/08/14 14:47
Beryllium	**0.48**	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 14:47
Chromium	**85**	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Cobalt	**13**	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Copper	**33**	0.50	mg/Kg	EPA 6010B	04/08/14 14:47
Lead	**27**	0.50	mg/Kg	EPA 6010B	04/08/14 14:47
Molybdenum	**0.87**	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Nickel	**91**	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:47
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:47
Vanadium	**43**	0.25	mg/Kg	EPA 6010B	04/08/14 14:47
Zinc	**180**	1.0	mg/Kg	EPA 6010B	04/08/14 14:47
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/07/14 15:21

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-13d1.0** Matrix : Soil Lab Number : 87896-37
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 1.5	1.5	mg/Kg	EPA 6010B	04/08/14 19:12
Arsenic	**13**	1.5	mg/Kg	EPA 6010B	04/08/14 19:12
Barium	**370**	0.50	mg/Kg	EPA 6010B	04/08/14 14:52
Beryllium	**0.40**	0.25	mg/Kg	EPA 6010B	04/08/14 14:52
Cadmium	**20**	0.50	mg/Kg	EPA 6010B	04/08/14 14:52
Chromium	**730**	0.25	mg/Kg	EPA 6010B	04/08/14 14:52
Cobalt	**7.7**	0.25	mg/Kg	EPA 6010B	04/08/14 14:52
Copper	**310**	0.50	mg/Kg	EPA 6010B	04/08/14 14:52
Lead	**1300**	1.0	mg/Kg	EPA 6010B	04/08/14 19:12
Molybdenum	**19**	0.25	mg/Kg	EPA 6010B	04/08/14 14:52
Nickel	**79**	0.25	mg/Kg	EPA 6010B	04/08/14 14:52
Selenium	< 1.5	1.5	mg/Kg	EPA 6010B	04/08/14 19:12
Silver	**2.9**	0.50	mg/Kg	EPA 6010B	04/08/14 19:12
Thallium	< 1.5	1.5	mg/Kg	EPA 6010B	04/08/14 19:12
Vanadium	**67**	0.50	mg/Kg	EPA 6010B	04/08/14 19:12
Zinc	**9600**	100	mg/Kg	EPA 6010B	04/08/14 18:31
Mercury	**0.32**	0.050	mg/Kg	EPA 7471A	04/07/14 15:22

KIFF Analytical LLC

Report Number : 87896
Date : 04/09/14

Project Name : **PS Newark Phase II**
Project Number : **PUBLO7143**

Sample : **B-13d3.0** Matrix : Soil Lab Number : 87896-38
Sample Date :04/02/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:57
Arsenic	**8.0**	0.75	mg/Kg	EPA 6010B	04/08/14 14:57
Barium	**160**	0.50	mg/Kg	EPA 6010B	04/08/14 14:57
Beryllium	**0.53**	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14 14:57
Chromium	**82**	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Cobalt	**15**	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Copper	**32**	0.50	mg/Kg	EPA 6010B	04/08/14 14:57
Lead	**8.8**	0.50	mg/Kg	EPA 6010B	04/08/14 14:57
Molybdenum	**0.82**	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Nickel	**98**	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:57
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14 14:57
Vanadium	**45**	0.25	mg/Kg	EPA 6010B	04/08/14 14:57
Zinc	**60**	1.0	mg/Kg	EPA 6010B	04/08/14 14:57
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/07/14 15:24

Report Number : 87896

Date : 04/09/14

QC Report : Method Blank Data

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14
Arsenic	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14
Barium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14
Beryllium	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14
Chromium	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Cobalt	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Copper	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	04/08/14
Molybdenum	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Nickel	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/08/14
Vanadium	< 0.25	0.25	mg/Kg	EPA 6010B	04/08/14
Zinc	< 1.0	1.0	mg/Kg	EPA 6010B	04/08/14
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	04/07/14
Arsenic	< 0.75	0.75	mg/Kg	EPA 6010B	04/07/14
Barium	< 0.50	0.50	mg/Kg	EPA 6010B	04/07/14
Beryllium	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	04/07/14
Chromium	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Cobalt	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Copper	< 0.50	0.50	mg/Kg	EPA 6010B	04/07/14
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	04/07/14
Molybdenum	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Nickel	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	04/07/14
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	04/07/14
Vanadium	< 0.25	0.25	mg/Kg	EPA 6010B	04/07/14
Zinc	< 1.0	1.0	mg/Kg	EPA 6010B	04/07/14

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/04/14
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	04/07/14

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 87896

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 04/09/14

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Antimony														
	87896-01	< 0.75	50.0	50.0	6.50	5.55	mg/Kg	EPA 6010B	4/8/14	**11.8**	**9.89**	15.9	75-125	20
Arsenic														
	87896-01	7.8	50.0	50.0	63.0	60.8	mg/Kg	EPA 6010B	4/8/14	110	106	3.66	75-125	20
Barium														
	87896-01	350	50.0	50.0	350	340	mg/Kg	EPA 6010B	4/8/14	**3.30**	**0.00**	3.00	75-125	20
Beryllium														
	87896-01	0.47	50.0	50.0	50.7	50.3	mg/Kg	EPA 6010B	4/8/14	100	99.7	0.638	75-125	20
Cadmium														
	87896-01	6.7	50.0	50.0	63.2	60.5	mg/Kg	EPA 6010B	4/8/14	113	108	4.41	75-125	20
Chromium														
	87896-01	780	50.0	50.0	698	658	mg/Kg	EPA 6010B	4/8/14	**0.00**	**0.00**	5.78	75-125	20
Cobalt														
	87896-01	11	50.0	50.0	58.7	58.2	mg/Kg	EPA 6010B	4/8/14	95.0	94.1	0.795	75-125	20
Copper														
	87896-01	130	50.0	50.0	220	199	mg/Kg	EPA 6010B	4/8/14	**183**	**140**	10.1	75-125	20
Lead														
	87896-01	470	50.0	50.0	562	506	mg/Kg	EPA 6010B	4/8/14	**185**	**72.9**	10.5	75-125	20
Molybdenum														
	87896-01	13	50.0	50.0	56.4	54.8	mg/Kg	EPA 6010B	4/8/14	87.3	84.0	2.96	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 87896

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 04/09/2014

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Nickel														
	87896-01	110	50.0	50.0	129	142	mg/Kg	EPA 6010B	4/8/14	**41.4**	**68.2**	9.88	75-125	20
Selenium														
	87896-01	< 0.75	50.0	50.0	48.4	48.6	mg/Kg	EPA 6010B	4/8/14	96.8	97.1	0.348	75-125	20
Silver														
	87896-01	1.1	25.0	25.0	28.5	27.9	mg/Kg	EPA 6010B	4/8/14	110	107	2.17	75-125	20
Thallium														
	87896-01	< 0.75	50.0	50.0	43.4	43.0	mg/Kg	EPA 6010B	4/8/14	86.9	86.0	0.984	75-125	20
Vanadium														
	87896-01	64	50.0	50.0	119	113	mg/Kg	EPA 6010B	4/8/14	111	99.8	4.79	75-125	20
Zinc														
	87896-01	2800	50.0	50.0	2680	2260	mg/Kg	EPA 6010B	4/8/14	**0.00**	**0.00**	17.1	75-125	20
Antimony														
	87896-32	1.2	49.5	49.5	10.5	10.1	mg/Kg	EPA 6010B	4/7/14	**18.7**	**18.0**	3.42	75-125	20
Arsenic														
	87896-32	7.4	49.5	49.5	57.2	53.9	mg/Kg	EPA 6010B	4/7/14	100	94.0	5.86	75-125	20
Barium														
	87896-32	220	49.5	49.5	274	302	mg/Kg	EPA 6010B	4/7/14	119	**175**	9.68	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 87896

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 04/09/2014

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Beryllium														
	87896-32	0.47	49.5	49.5	49.0	46.4	mg/Kg	EPA 6010B	4/7/14	98.0	92.9	5.32	75-125	20
Cadmium														
	87896-32	< 0.50	49.5	49.5	49.9	47.5	mg/Kg	EPA 6010B	4/7/14	100	95.3	4.93	75-125	20
Chromium														
	87896-32	83	49.5	49.5	132	125	mg/Kg	EPA 6010B	4/7/14	98.8	85.2	5.24	75-125	20
Cobalt														
	87896-32	13	49.5	49.5	58.0	55.6	mg/Kg	EPA 6010B	4/7/14	90.3	85.5	4.19	75-125	20
Copper														
	87896-32	23	49.5	49.5	66.2	63.9	mg/Kg	EPA 6010B	4/7/14	86.7	82.1	3.48	75-125	20
Lead														
	87896-32	14	49.5	49.5	58.7	54.3	mg/Kg	EPA 6010B	4/7/14	91.1	82.2	7.78	75-125	20
Molybdenum														
	87896-32	0.61	49.5	49.5	43.5	41.2	mg/Kg	EPA 6010B	4/7/14	86.6	82.1	5.26	75-125	20
Nickel														
	87896-32	89	49.5	49.5	134	130	mg/Kg	EPA 6010B	4/7/14	90.2	82.7	2.82	75-125	20
Selenium														
	87896-32	< 0.75	49.5	49.5	47.0	44.4	mg/Kg	EPA 6010B	4/7/14	94.9	89.7	5.62	75-125	20
Silver														
	87896-32	< 0.25	24.8	24.8	24.5	23.9	mg/Kg	EPA 6010B	4/7/14	98.5	96.2	2.35	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 87896

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 04/09/2014

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Thallium														
	87896-32	< 0.75	49.5	49.5	42.8	40.5	mg/Kg	EPA 6010B	4/7/14	86.3	81.6	5.58	75-125	20
Vanadium														
	87896-32	42	49.5	49.5	89.1	88.1	mg/Kg	EPA 6010B	4/7/14	95.3	93.3	1.10	75-125	20
Zinc														
	87896-32	95	49.5	49.5	154	128	mg/Kg	EPA 6010B	4/7/14	119	**67.1**	18.3	75-125	20
Mercury														
	87896-01	0.080	0.100	0.100	0.177	0.202	mg/Kg	EPA 7471A	4/4/14	96.9	122	13.2	75-125	20
Mercury														
	87896-32	< 0.050	0.100	0.100	0.129	0.153	mg/Kg	EPA 7471A	4/7/14	99.1	123	17.0	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Antimony	50.0	mg/Kg	EPA 6010B	4/8/14	105	85-115
Arsenic	50.0	mg/Kg	EPA 6010B	4/8/14	107	85-115
Barium	50.0	mg/Kg	EPA 6010B	4/8/14	109	85-115
Beryllium	50.0	mg/Kg	EPA 6010B	4/8/14	105	85-115
Cadmium	50.0	mg/Kg	EPA 6010B	4/8/14	102	85-115
Chromium	50.0	mg/Kg	EPA 6010B	4/8/14	101	85-115
Cobalt	50.0	mg/Kg	EPA 6010B	4/8/14	105	85-115
Copper	50.0	mg/Kg	EPA 6010B	4/8/14	101	85-115
Lead	50.0	mg/Kg	EPA 6010B	4/8/14	107	85-115
Molybdenum	50.0	mg/Kg	EPA 6010B	4/8/14	107	85-115
Nickel	50.0	mg/Kg	EPA 6010B	4/8/14	104	85-115
Selenium	50.0	mg/Kg	EPA 6010B	4/8/14	102	85-115
Silver	25.0	mg/Kg	EPA 6010B	4/8/14	101	85-115
Thallium	50.0	mg/Kg	EPA 6010B	4/8/14	105	85-115
Vanadium	50.0	mg/Kg	EPA 6010B	4/8/14	99.2	85-115
Zinc	50.0	mg/Kg	EPA 6010B	4/8/14	105	85-115
Antimony	50.0	mg/Kg	EPA 6010B	4/7/14	104	85-115
Arsenic	50.0	mg/Kg	EPA 6010B	4/7/14	105	85-115
Barium	50.0	mg/Kg	EPA 6010B	4/7/14	105	85-115
Beryllium	50.0	mg/Kg	EPA 6010B	4/7/14	102	85-115
Cadmium	50.0	mg/Kg	EPA 6010B	4/7/14	102	85-115
Chromium	50.0	mg/Kg	EPA 6010B	4/7/14	99.4	85-115

QC Report : Laboratory Control Sample (LCS)

Project Name : **PS Newark Phase II**

Project Number : **PUBLO7143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Cobalt	50.0	mg/Kg	EPA 6010B	4/7/14	104	85-115
Copper	50.0	mg/Kg	EPA 6010B	4/7/14	99.9	85-115
Lead	50.0	mg/Kg	EPA 6010B	4/7/14	105	85-115
Molybdenum	50.0	mg/Kg	EPA 6010B	4/7/14	105	85-115
Nickel	50.0	mg/Kg	EPA 6010B	4/7/14	103	85-115
Selenium	50.0	mg/Kg	EPA 6010B	4/7/14	103	85-115
Silver	25.0	mg/Kg	EPA 6010B	4/7/14	99.6	85-115
Thallium	50.0	mg/Kg	EPA 6010B	4/7/14	104	85-115
Vanadium	50.0	mg/Kg	EPA 6010B	4/7/14	98.7	85-115
Zinc	50.0	mg/Kg	EPA 6010B	4/7/14	105	85-115
Mercury	0.100	mg/Kg	EPA 7471A	4/4/14	104	85-115
Mercury	0.100	mg/Kg	EPA 7471A	4/7/14	101	85-115

KIFF ANALYTICAL, LLC
2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 87896

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nicole Persaud
Company / Address: AntaGroup / 1155 N. First St., San Jose, CA
Phone #: 407-758-3428
Fax #:
Project #: PUBL07143
P.O. #: PUBL07145
Project Name: PS Newark Phase II
Project Address: 6800 Owlstake Place, Newark, CA

California EDF Report? ☐ Yes ☑ No
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address): nicole.persaud@antagroup.com
Sampler Signature: S. Mc

Sample Designation	Field Point Name	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Analysis Request: CAM 17 Metals by EPA Method 6010	Analysis Request: Organochlorine Pesticides by EPA 8081	NOTES	For Lab Use Only
B-1d1.0	B-1	4/1/14	900		X						X		X	✓	✓		01
B-1d3.0	↓		950											✓	✓		02
B-1d5.0	↓		1005											✓	✓	HOLD	03
B-2d1.0	B-2		1050											✓	✓		04
B-2d3.0	↓		1100											✓	✓		05
B-2d5.0	↓	↓	1110		↓						↓		↓	✓	✓	HOLD	06
B-3d1.5	B-3	4/2/14	9:26											✓	✓		07
B-3d3.0	↓		9:45											✓	✓		08
B-3d4.5	↓		9:47											✓	✓	HOLD	09
B-4d1.0	B-4		10:10											✓	✓		10
B-4d3.0	↓		10:24											✓	✓		11
B-4d4.5	↓		10:15											✓	✓	HOLD	12
B-5d1.0	B-5	↓	10:50		↓						↓		↓	✓	✓		13

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ~~☐ 1 wk~~ 4 day

Relinquished by:	Date	Time	Received by:
	4/2/14	17:30	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	040314	1414	Kiff Analytical LLC

4 day TAT requested for receipt by 12pm on April 9
Note some samples are to be left on HOLD

For Lab Use Only: Sample Receipt

Temp °C	Initials		Date	Time	therm. ID	Coolant Present
						Yes / No

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 87896

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nicole Persaud
Company / Address: Antea Group (San Jose Office)
Phone #: (407) 758-3428 Fax #:
Project #: PUBL07143 P.O. #: PUBL07143
Project Name: PS Newark Phase II
Project Address: 6800 Overlake Pl. Newark, CA

California EDF Report? ☐ Yes ☒ No
Sampling Company Log Code: n/a
Global ID: n/a
EDF Deliverable To (Email Address): nicole.persaud@anteagroup.com
Sampler Signature:

Sample Designation	Field Point Name	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	CAM 17 Metals EPA Method 6010	Organochlorine Pesticides; Method 8081	NOTES	For Lab Use Only
B-5d3.0	B-5	4/2/14	11:15		✓						✓		✓	✓	✓		14
B-5d4.5	↓	↓	11:09		✓						✓		✓	✓	✓	HOLD	15
B-6d1.0	B-6		12:25		✓						✓		✓	✓	✓		16
B-6d3.0	↓		12:33		✓						✓		✓	✓	✓		17
B-6d4.5	↓		12:30		✓						✓		✓	✓	✓	HOLD	18
B-7d1.0	B-7		13:30		✓						✓		✓	✓	✓		19
B-7d3.0	↓		13:41		✓						✓		✓	✓	✓		20
B-7d4.5	↓		13:39		✓						✓		✓	✓	✓	HOLD	21
B-8d1.5	B-8		14:00		✓						✓		✓	✓	✓		22
B-8d3.0	↓		14:06		✓						✓		✓	✓	✓		23
B-8d4.5	↓		14:04		✓						✓		✓	✓	✓	HOLD	24
B-9d1.5	B-9		14:50		✓						✓		✓	✓	✓		25
B-9d3.0	↓	↓	14:45		✓						✓		✓	✓	✓		26

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 4 day ☐ 1 wk

Relinquished by:	Date	Time	Received by:
	4/2/14	17:30	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
	040314	1444	Kiff Analytical LLC

4 day TAT requested for receipt
Note some samples are requested to be left on HOLD

For Lab Use Only: Sample Receipt

Temp °C	Initials		Date	Time	Therm. ID	Coolant Present
						Yes / No

KIFF Analytical LLC

2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 87896

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nicole Persaud
Company / Address: Antea Group (San Jose Office)
Phone #: 407-758-3428 Fax #:
Project #: PUBL07143 P.O. #:
Project Name: PS Newark Phase II
Project Address: 6800 Overlake Pl. Newark, CA

California EDF Report? ☐ Yes ☒ No
Sampling Company Log Code: n/a
Global ID: n/a
EDF Deliverable To (Email Address): nicole.persaud@anteagroup.com
Sampler Signature:

Sample Designation	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	CAM 17 Metals Method 6010	Organochlorine Pesticides; EPA Method 8081	NOTES	For Lab Use Only
B-9d4.5	B-9	4/2/14	14:46		✓								✓	✓	✓	HOLD	27
B-10d1.0	B-10	↓	14:50		✓								✓	✓	✓		28
B-10d3.0	↓		15:08		✓								✓	✓	✓		29
B-10d4.5	↓		15:06		✓								✓	✓	✓	HOLD	30
B-11d1.0	B-11		15:16		✓								✓	✓	✓		31
B-11d3.0	↓		15:20		✓								✓	✓	✓		32
B-11d4.5	↓		15:18		✓								✓	✓	✓	HOLD	33
B-12d1.0	B-12		15:30		✓								✓	✓	✓		34
B-12d3.0	↓		15:37		✓								✓	✓	✓		35
B-12d4.5	↓		15:35		✓								✓	✓	✓	HOLD	36
B-13d1.0	B-13		15:40		✓								✓	✓	✓		37
B-13d3.0	↓		15:45		✓								✓	✓	✓		38
B-13d4.5	↓	↓	15:43		✓								✓	✓	✓	HOLD	39

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72 hr ☒ 4day ☐ 1 wk

Relinquished by:	Date	Time	Received by:
	4/2/14	17:30	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	040314	1414	kiff Analytical LLC

4 day TAT requested for receipt by 12pm on April 9, 2014

Note some samples are to be left on HOLD

For Lab Use Only: Sample Receipt

Temp °C	Initials		Date	Time	herm. ID	Coolant Present
						Yes / No

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 87896

Sample Receipt	Initials/Date: TJB040314	Storage Time: 1414	Sample Login	Initials/Date: TJB 040314

TAT: ☐ Standard ☒ Rush (4-Day) ☐ Split ☐ None

Method of Receipt: ☐ Courier ☐ Over-the-counter ☒ Shipped

Temp °C 2.6 ☐ N/A | Therm ID IR-3 | Time 1214 | Coolant present ☒ Yes ☐ No ☐ Water | ☐ Temp Excursion

For Shipments Only: Cooler Receipt Initials/Date/Time: TJB 040314 1214 | Custody Seals ☐ N/A ☒ Intact ☐ Broken

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X	X	
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?	☒ N/A	☐ Yes	☐ No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?	X		
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?	X		
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Three pages numbered 1 of 1 were received for this project. Per SMF of Client Services, Sample Receiving will log in the page beginning w.tn B-1d1.0 as page 1, the page beginning with B5d3.0 as page 2, and the page beginning with B-9d4.5 as page 3. TJB 040314 1422

Receipt Details:

Matrix	Container Type	# of Containers
SO	Sleeve	39

CS Required: ☐

Proceed With Analysis: ☐ YES ☐ NO Init/Date:

Client Communication:

Leaders in Analytical Science and Service

KIFF Analytical LLC

Subcontract Laboratory Report Attachments

2795 Second Street, Suite 300 Davis, CA 95618
tel 530.297.4800 fax 530.297.4808
www.kiffanalytical.com

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 14-04-0314

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Kiff Analytical

Client Project Name: PS Newark Phase II

Attention: Joel Kiff
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Amanda Porter

Approved for release on 04/09/2014 by:
Amanda Porter
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: PS Newark Phase II
Work Order Number: 14-04-0314

Calscience Environmental Laboratories, Inc.

Work Order Narrative

Work Order: 14-04-0314 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/04/14. They were assigned to Work Order 14-04-0314.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1d1.0	**14-04-0314-1-A**	**04/01/14 09:00**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 10:31**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	0.995	
Alpha-BHC	ND	5.0	0.995	
Beta-BHC	ND	5.0	0.995	
Chlordane	ND	50	0.995	
4,4'-DDD	ND	5.0	0.995	
4,4'-DDT	ND	5.0	0.995	
Delta-BHC	ND	5.0	0.995	
Dieldrin	ND	5.0	0.995	
Endosulfan I	ND	5.0	0.995	
Endosulfan II	ND	5.0	0.995	
Endosulfan Sulfate	ND	5.0	0.995	
Endrin	ND	5.0	0.995	
Endrin Aldehyde	ND	5.0	0.995	
Endrin Ketone	ND	5.0	0.995	
Gamma-BHC	ND	5.0	0.995	
Heptachlor	ND	5.0	0.995	
Heptachlor Epoxide	ND	5.0	0.995	
Methoxychlor	ND	5.0	0.995	
Toxaphene	ND	99	0.995	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1d1.0	**14-04-0314-1-A**	**04/01/14 09:00**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 15:03**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	360	100	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	24-168	
2,4,5,6-Tetrachloro-m-Xylene	65	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1d3.0	**14-04-0314-2-A**	**04/01/14 09:50**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 10:46**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.1	1.01	
Alpha-BHC	ND	5.1	1.01	
Beta-BHC	ND	5.1	1.01	
Chlordane	ND	51	1.01	
4,4'-DDD	ND	5.1	1.01	
4,4'-DDE	ND	5.1	1.01	
4,4'-DDT	ND	5.1	1.01	
Delta-BHC	ND	5.1	1.01	
Dieldrin	ND	5.1	1.01	
Endosulfan I	ND	5.1	1.01	
Endosulfan II	ND	5.1	1.01	
Endosulfan Sulfate	ND	5.1	1.01	
Endrin	ND	5.1	1.01	
Endrin Aldehyde	ND	5.1	1.01	
Endrin Ketone	ND	5.1	1.01	
Gamma-BHC	ND	5.1	1.01	
Heptachlor	ND	5.1	1.01	
Heptachlor Epoxide	ND	5.1	1.01	
Methoxychlor	ND	5.1	1.01	
Toxaphene	ND	100	1.01	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	43	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2d1.0	**14-04-0314-4-A**	**04/01/14 10:50**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 11:00**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	0.995	
Alpha-BHC	ND	5.0	0.995	
Beta-BHC	ND	5.0	0.995	
Chlordane	ND	50	0.995	
4,4'-DDD	ND	5.0	0.995	
4,4'-DDE	18	5.0	0.995	
4,4'-DDT	ND	5.0	0.995	
Delta-BHC	ND	5.0	0.995	
Dieldrin	ND	5.0	0.995	
Endosulfan I	ND	5.0	0.995	
Endosulfan II	ND	5.0	0.995	
Endosulfan Sulfate	ND	5.0	0.995	
Endrin	ND	5.0	0.995	
Endrin Aldehyde	ND	5.0	0.995	
Endrin Ketone	ND	5.0	0.995	
Gamma-BHC	ND	5.0	0.995	
Heptachlor	ND	5.0	0.995	
Heptachlor Epoxide	ND	5.0	0.995	
Methoxychlor	ND	5.0	0.995	
Toxaphene	ND	99	0.995	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	57	24-168	
2,4,5,6-Tetrachloro-m-Xylene	43	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2d3.0	**14-04-0314-5-A**	**04/01/14 11:00**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 11:14**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	53	24-168	
2,4,5,6-Tetrachloro-m-Xylene	29	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3d1.5	**14-04-0314-7-A**	**04/02/14 09:26**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 11:29**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.1	1.01	
Alpha-BHC	ND	5.1	1.01	
Beta-BHC	ND	5.1	1.01	
Chlordane	ND	51	1.01	
4,4'-DDD	ND	5.1	1.01	
4,4'-DDE	16	5.1	1.01	
4,4'-DDT	ND	5.1	1.01	
Delta-BHC	ND	5.1	1.01	
Dieldrin	ND	5.1	1.01	
Endosulfan I	ND	5.1	1.01	
Endosulfan II	ND	5.1	1.01	
Endosulfan Sulfate	ND	5.1	1.01	
Endrin	ND	5.1	1.01	
Endrin Aldehyde	ND	5.1	1.01	
Endrin Ketone	ND	5.1	1.01	
Gamma-BHC	ND	5.1	1.01	
Heptachlor	ND	5.1	1.01	
Heptachlor Epoxide	ND	5.1	1.01	
Methoxychlor	ND	5.1	1.01	
Toxaphene	ND	100	1.01	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	59	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3d3.0	**14-04-0314-8-A**	**04/02/14 09:45**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 11:43**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	0.995	
Alpha-BHC	ND	5.0	0.995	
Beta-BHC	ND	5.0	0.995	
Chlordane	ND	50	0.995	
4,4'-DDD	ND	5.0	0.995	
4,4'-DDE	ND	5.0	0.995	
4,4'-DDT	ND	5.0	0.995	
Delta-BHC	ND	5.0	0.995	
Dieldrin	ND	5.0	0.995	
Endosulfan I	ND	5.0	0.995	
Endosulfan II	ND	5.0	0.995	
Endosulfan Sulfate	ND	5.0	0.995	
Endrin	ND	5.0	0.995	
Endrin Aldehyde	ND	5.0	0.995	
Endrin Ketone	ND	5.0	0.995	
Gamma-BHC	ND	5.0	0.995	
Heptachlor	ND	5.0	0.995	
Heptachlor Epoxide	ND	5.0	0.995	
Methoxychlor	ND	5.0	0.995	
Toxaphene	ND	99	0.995	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	68	24-168	
2,4,5,6-Tetrachloro-m-Xylene	37	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4d1.0	**14-04-0314-10-A**	**04/02/14 10:10**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 11:57**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	0.995	
Alpha-BHC	ND	5.0	0.995	
Beta-BHC	ND	5.0	0.995	
Chlordane	ND	50	0.995	
4,4'-DDD	ND	5.0	0.995	
4,4'-DDE	20	5.0	0.995	
4,4'-DDT	ND	5.0	0.995	
Delta-BHC	ND	5.0	0.995	
Dieldrin	ND	5.0	0.995	
Endosulfan I	ND	5.0	0.995	
Endosulfan II	ND	5.0	0.995	
Endosulfan Sulfate	ND	5.0	0.995	
Endrin	ND	5.0	0.995	
Endrin Aldehyde	ND	5.0	0.995	
Endrin Ketone	ND	5.0	0.995	
Gamma-BHC	ND	5.0	0.995	
Heptachlor	ND	5.0	0.995	
Heptachlor Epoxide	ND	5.0	0.995	
Methoxychlor	ND	5.0	0.995	
Toxaphene	ND	99	0.995	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4d3.0	**14-04-0314-11-A**	**04/02/14 10:24**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 12:12**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.1	1.01	
Alpha-BHC	ND	5.1	1.01	
Beta-BHC	ND	5.1	1.01	
Chlordane	ND	51	1.01	
4,4'-DDD	ND	5.1	1.01	
4,4'-DDE	5.2	5.1	1.01	
4,4'-DDT	ND	5.1	1.01	
Delta-BHC	ND	5.1	1.01	
Dieldrin	ND	5.1	1.01	
Endosulfan I	ND	5.1	1.01	
Endosulfan II	ND	5.1	1.01	
Endosulfan Sulfate	ND	5.1	1.01	
Endrin	ND	5.1	1.01	
Endrin Aldehyde	ND	5.1	1.01	
Endrin Ketone	ND	5.1	1.01	
Gamma-BHC	ND	5.1	1.01	
Heptachlor	ND	5.1	1.01	
Heptachlor Epoxide	ND	5.1	1.01	
Methoxychlor	ND	5.1	1.01	
Toxaphene	ND	100	1.01	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	62	24-168	
2,4,5,6-Tetrachloro-m-Xylene	47	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5d1.0	**14-04-0314-13-A**	**04/02/14 10:50**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 12:26**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	64	24-168	
2,4,5,6-Tetrachloro-m-Xylene	61	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5d3.0	**14-04-0314-14-A**	**04/02/14 11:15**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 12:40**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.1	1.01	
Alpha-BHC	ND	5.1	1.01	
Beta-BHC	ND	5.1	1.01	
Chlordane	ND	51	1.01	
4,4'-DDD	ND	5.1	1.01	
4,4'-DDE	ND	5.1	1.01	
4,4'-DDT	ND	5.1	1.01	
Delta-BHC	ND	5.1	1.01	
Dieldrin	ND	5.1	1.01	
Endosulfan I	ND	5.1	1.01	
Endosulfan II	ND	5.1	1.01	
Endosulfan Sulfate	ND	5.1	1.01	
Endrin	ND	5.1	1.01	
Endrin Aldehyde	ND	5.1	1.01	
Endrin Ketone	ND	5.1	1.01	
Gamma-BHC	ND	5.1	1.01	
Heptachlor	ND	5.1	1.01	
Heptachlor Epoxide	ND	5.1	1.01	
Methoxychlor	ND	5.1	1.01	
Toxaphene	ND	100	1.01	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	41	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-6d1.0	**14-04-0314-16-A**	**04/02/14 12:25**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 12:54**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	0.995	
Alpha-BHC	ND	5.0	0.995	
Beta-BHC	ND	5.0	0.995	
Chlordane	ND	50	0.995	
4,4'-DDD	ND	5.0	0.995	
4,4'-DDE	ND	5.0	0.995	
4,4'-DDT	ND	5.0	0.995	
Delta-BHC	ND	5.0	0.995	
Dieldrin	ND	5.0	0.995	
Endosulfan I	ND	5.0	0.995	
Endosulfan II	ND	5.0	0.995	
Endosulfan Sulfate	ND	5.0	0.995	
Endrin	ND	5.0	0.995	
Endrin Aldehyde	ND	5.0	0.995	
Endrin Ketone	ND	5.0	0.995	
Gamma-BHC	ND	5.0	0.995	
Heptachlor	ND	5.0	0.995	
Heptachlor Epoxide	ND	5.0	0.995	
Methoxychlor	ND	5.0	0.995	
Toxaphene	ND	99	0.995	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-6d3.0	**14-04-0314-17-A**	**04/02/14 12:33**	**Solid**	**GC 51**	**04/04/14**	**04/07/14 19:05**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	42	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-7d1.0	**14-04-0314-19-A**	**04/02/14 13:30**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 13:09**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	7.5	5.0	1.00	
4,4'-DDE	12	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	63	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-7d3.0	**14-04-0314-20-A**	**04/02/14 13:41**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 13:23**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	24-168	
2,4,5,6-Tetrachloro-m-Xylene	45	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-8d1.5	**14-04-0314-22-A**	**04/02/14 14:00**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 13:37**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	19	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	63	24-168	
2,4,5,6-Tetrachloro-m-Xylene	59	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-8d1.5	**14-04-0314-22-A**	**04/02/14 14:00**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 16:59**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	250	100	20.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	71	24-168	
2,4,5,6-Tetrachloro-m-Xylene	58	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-8d3.0	**14-04-0314-23-A**	**04/02/14 14:06**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 13:52**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	38	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-9d1.5	**14-04-0314-25-A**	**04/02/14 14:50**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 14:06**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	39	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	67	24-168	
2,4,5,6-Tetrachloro-m-Xylene	41	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-9d3.0	**14-04-0314-26-A**	**04/02/14 14:45**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 14:20**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	61	24-168	
2,4,5,6-Tetrachloro-m-Xylene	30	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-10d1.0	**14-04-0314-28-A**	**04/02/14 14:50**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 14:35**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	5.6	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	69	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-10d3.0	**14-04-0314-29-A**	**04/02/14 15:08**	**Solid**	**GC 51**	**04/04/14**	**04/08/14 14:49**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	43	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-11d1.0	**14-04-0314-31-A**	**04/02/14 15:16**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 15:04**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	29	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	73	24-168	
2,4,5,6-Tetrachloro-m-Xylene	63	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-11d3.0	**14-04-0314-32-A**	**04/02/14 15:20**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 15:18**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	46	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-12d1.0	**14-04-0314-34-A**	**04/02/14 15:30**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 15:32**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	59	24-168	
2,4,5,6-Tetrachloro-m-Xylene	36	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-12d1.0	**14-04-0314-34-A**	**04/02/14 15:30**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 17:56**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
4,4'-DDE	49	10	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	63	24-168	
2,4,5,6-Tetrachloro-m-Xylene	37	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-12d3.0	**14-04-0314-35-A**	**04/02/14 15:37**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 15:47**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	52	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-13d1.0	**14-04-0314-37-A**	**04/02/14 15:40**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 16:01**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	66	24-168	
2,4,5,6-Tetrachloro-m-Xylene	57	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-13d3.0	**14-04-0314-38-A**	**04/02/14 15:45**	**Solid**	**GC 44**	**04/04/14**	**04/08/14 16:16**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	46	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1654**	**N/A**	**Solid**	**GC 44**	**04/04/14**	**04/04/14 18:17**	**140404L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: PS Newark Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-1658**	**N/A**	**Solid**	**GC 51**	**04/04/14**	**04/07/14 18:36**	**140404L19**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	5.0	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	5.0	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	5.0	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A

Project: PS Newark Phase II

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-04-0068-1	**Sample**	**Solid**	**GC 44**	**04/04/14**	**04/04/14 18:37**	**140404S10**
14-04-0068-1	**Matrix Spike**	**Solid**	**GC 44**	**04/04/14**	**04/04/14 18:51**	**140404S10**
14-04-0068-1	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**04/04/14**	**04/04/14 19:06**	**140404S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	14.09	56	13.88	56	50-135	1	0-25	
Alpha-BHC	ND	25.00	15.12	60	14.71	59	50-135	3	0-25	
Beta-BHC	ND	25.00	13.69	55	13.56	54	50-135	1	0-25	
4,4'-DDD	ND	25.00	17.22	69	16.82	67	50-135	2	0-25	
4,4'-DDE	ND	25.00	15.45	62	14.42	58	50-135	7	0-25	
4,4'-DDT	ND	25.00	14.54	58	13.02	52	50-135	11	0-25	
Delta-BHC	ND	25.00	13.50	54	13.41	54	50-135	1	0-25	
Dieldrin	ND	25.00	14.83	59	14.21	57	50-135	4	0-25	
Endosulfan I	ND	25.00	14.24	57	13.87	55	50-135	3	0-25	
Endosulfan II	ND	25.00	15.76	63	14.75	59	50-135	7	0-25	
Endosulfan Sulfate	ND	25.00	14.19	57	13.76	55	50-135	3	0-25	
Endrin	ND	25.00	15.84	63	14.91	60	50-135	6	0-25	
Endrin Aldehyde	ND	25.00	15.68	63	15.62	62	50-135	0	0-25	
Gamma-BHC	ND	25.00	14.20	57	14.11	56	50-135	1	0-25	
Heptachlor	ND	25.00	14.51	58	14.35	57	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	14.11	56	13.46	54	50-135	5	0-25	
Methoxychlor	ND	25.00	14.50	58	11.50	46	50-135	23	0-25	3

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A

Project: PS Newark Phase II

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-6d3.0	**Sample**	**Solid**	**GC 51**	**04/04/14**	**04/07/14 19:05**	**140404S19**
B-6d3.0	**Matrix Spike**	**Solid**	**GC 51**	**04/04/14**	**04/07/14 19:19**	**140404S19**
B-6d3.0	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**04/04/14**	**04/07/14 19:33**	**140404S19**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	11.44	46	10.57	42	50-135	8	0-25	3
Alpha-BHC	ND	25.00	14.06	56	14.28	57	50-135	2	0-25	
Beta-BHC	ND	25.00	16.13	65	17.47	70	50-135	8	0-25	
4,4'-DDD	ND	25.00	12.77	51	11.95	48	50-135	7	0-25	3
4,4'-DDE	ND	25.00	10.96	44	10.35	41	50-135	6	0-25	3
4,4'-DDT	ND	25.00	11.37	45	10.81	43	50-135	5	0-25	3
Delta-BHC	ND	25.00	14.26	57	14.95	60	50-135	5	0-25	
Dieldrin	ND	25.00	11.77	47	11.45	46	50-135	3	0-25	3
Endosulfan I	ND	25.00	10.90	44	10.74	43	50-135	1	0-25	3
Endosulfan II	ND	25.00	14.60	58	14.12	56	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	17.10	68	16.88	68	50-135	1	0-25	
Endrin	ND	25.00	11.27	45	10.96	44	50-135	3	0-25	3
Endrin Aldehyde	ND	25.00	17.02	68	16.41	66	50-135	4	0-25	
Gamma-BHC	ND	25.00	14.26	57	15.02	60	50-135	5	0-25	
Heptachlor	ND	25.00	12.19	49	11.47	46	50-135	6	0-25	3
Heptachlor Epoxide	ND	25.00	17.80	71	19.65	79	50-135	10	0-25	
Methoxychlor	ND	25.00	14.52	58	13.40	54	50-135	8	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A

Project: PS Newark Phase II

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-1654	**LCS**	**Solid**	**GC 44**	**04/04/14**	**04/04/14 19:22**	**140404L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	17.42	70	50-135	36-149	
Alpha-BHC	25.00	18.45	74	50-135	36-149	
Beta-BHC	25.00	17.30	69	50-135	36-149	
4,4'-DDD	25.00	18.33	73	50-135	36-149	
4,4'-DDE	25.00	18.21	73	50-135	36-149	
4,4'-DDT	25.00	17.39	70	50-135	36-149	
Delta-BHC	25.00	16.98	68	50-135	36-149	
Dieldrin	25.00	17.72	71	50-135	36-149	
Endosulfan I	25.00	17.83	71	50-135	36-149	
Endosulfan II	25.00	17.85	71	50-135	36-149	
Endosulfan Sulfate	25.00	16.80	67	50-135	36-149	
Endrin	25.00	17.80	71	50-135	36-149	
Endrin Aldehyde	25.00	17.47	70	50-135	36-149	
Gamma-BHC	25.00	18.48	74	50-135	36-149	
Heptachlor	25.00	17.21	69	50-135	36-149	
Heptachlor Epoxide	25.00	15.59	62	50-135	36-149	
Methoxychlor	25.00	17.32	69	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Quality Control - LCS

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95618-6505

Project: PS Newark Phase II

Date Received: 04/04/14
Work Order: 14-04-0314
Preparation: EPA 3545
Method: EPA 8081A

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-1658	**LCS**	**Solid**	**GC 51**	**04/04/14**	**04/07/14 18:51**	**140404L19**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	22.62	90	50-135	36-149	
Alpha-BHC	25.00	22.52	90	50-135	36-149	
Beta-BHC	25.00	22.91	92	50-135	36-149	
4,4'-DDD	25.00	22.51	90	50-135	36-149	
4,4'-DDE	25.00	22.67	91	50-135	36-149	
4,4'-DDT	25.00	22.04	88	50-135	36-149	
Delta-BHC	25.00	20.67	83	50-135	36-149	
Dieldrin	25.00	22.54	90	50-135	36-149	
Endosulfan I	25.00	22.91	92	50-135	36-149	
Endosulfan II	25.00	22.36	89	50-135	36-149	
Endosulfan Sulfate	25.00	22.14	89	50-135	36-149	
Endrin	25.00	21.68	87	50-135	36-149	
Endrin Aldehyde	25.00	22.37	89	50-135	36-149	
Gamma-BHC	25.00	22.56	90	50-135	36-149	
Heptachlor	25.00	23.69	95	50-135	36-149	
Heptachlor Epoxide	25.00	21.99	88	50-135	36-149	
Methoxychlor	25.00	22.15	89	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Calscience Environmental Laboratories, Inc.

Sample Analysis Summary Report

Work Order: 14-04-0314

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8081A	EPA 3545	500	GC 51	1
EPA 8081A	EPA 3545	842	GC 44	1

Return to Contents

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order: 14-04-0314 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Return to Contents

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4808

Calscience
7440 Lincoln Way
Garden Grove. CA 92841-1427
714-895-5494

14-04-0314

COC No. **87896** Page 1 of 4

Project Contact (Hardcopy or PDF to): Scott Forbes

EDF Report? NO

Chain-of-Custody Record and Analysis Request

Company/Address: Kiff Analytical

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Phone No.: 530-297-4800 FAX No.: 530-297-4808

Project Number: PUBLO7143 P.O. No.: **87896**

Deliverables to (Email Address): inbox@kiffanalytical.com

Project Name: PS Newark Phase II

Project Address:

Sample Designation	Sampling Date	Sampling Time	Container / Preservative: 4 Oz. Glass None	Matrix: Soil	Analysis Request: Hold Sub	Analysis Request: Organochlorine Pesticides	TAT: 72-Hours: Due 4/9/14	For Lab Use Only
B-1d1.0	04/01/14	09:00	1	X		X	X	1
B-1d3.0	04/01/14	09:50	1	X		X	X	2
B-1d5.0	04/01/14	10:05	1	X	X		X	3
B-2d1.0	04/01/14	10:50	1	X		X	X	4
B-2d3.0	04/01/14	11:00	1	X		X	X	5
B-2d5.0	04/01/14	11:10	1	X	X		X	6
B-3d1.5	04/02/14	09:26	1	X		X	X	7
B-3d3.0	04/02/14	09:45	1	X		X	X	8
B-3d4.5	04/02/14	09:47	1	X	X		X	9
B-4d1.0	04/02/14	10:10	1	X		X	X	10

	Date	Time		
Relinquished by: Kiff Analytical	04/3/14	1700	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	4/3/14	1020	Received by Laboratory:	Bill to: Accounts Payable

Return to Contents

KIFF Analytical LLC
2795 Second Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4808

Calscience
7440 Lincoln Way
Garden Grove, CA 92841-1427
714-895-5494

0314

COC No. **87896** Page 2 of 4

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Scott Forbes

EDF Report? NO

Company/Address: Kiff Analytical

Phone No.: 530-297-4800 FAX No.: 530-297-4808

Project Number: PUBLO7143 P.O. No.: **87896**

Project Name: PS Newark Phase II

Project Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Deliverables to (Email Address): inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container / Preservative: 4 Oz. Glass None	Matrix: Soil	Analysis Request: Hold Sub	Analysis Request: Organochlorine Pesticides	TAT: 72-Hours: Due 4/9/14	For Lab Use Only
B-4d3.0	04/02/14	10:24	1	X		X	X	11
B-4d4.5	04/02/14	10:15	1	X	X		X	12
B-5d1.0	04/02/14	10:50	1	X		X	X	13
B-5d3.0	04/02/14	11:15	1	X		X	X	14
B-5d4.5	04/02/14	11:09	1	X	X		X	15
B-6d1.0	04/02/14	12:25	1	X		X	X	16
B-6d3.0	04/02/14	12:33	1	X		X	X	17
B-6d4.5	04/02/14	12:30	1	X	X		X	18
B-7d1.0	04/02/14	13:30	1	X		X	X	19
B-7d3.0	04/02/14	13:41	1	X		X	X	20

Relinquished by:	Date	Time	Received by:
Kiff Analytical LLC	040314	1700	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	4/4/14	1020	

Remarks:

Bill to: Accounts Payable

Return to Contents

KIFF Analytical LLC
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714-895-5494

0314

COC No. **87896** Page 3 of 4

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Scott Forbes

EDF Report? NO

Company/Address: Kiff Analytical

Phone No.: 530-297-4800 FAX No.: 530-297-4808

Project Number: PUBLO7143 P.O. No.: **87896**

Project Name: PS Newark Phase II

Project Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Deliverables to (Email Address): inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container / Preservative: 4 Oz. Glass None	Matrix: Soil	Analysis Request: Hold Sub	Analysis Request: Organochlorine Pesticides	TAT: 72-Hours: Due 4/9/14	For Lab Use Only
B-7d4.5	04/02/14	13:39	1	X	X		X	21
B-8d1.5	04/02/14	14:00	1	X		X	X	22
B-8d3.0	04/02/14	14:06	1	X		X	X	23
B-8d4.5	04/02/14	14:04	1	X	X		X	24
B-9d1.5	04/02/14	14:50	1	X		X	X	25
B-9d3.0	04/02/14	14:45	1	X		X	X	26
B-9d4.5	04/02/14	14:46	1	X	X		X	27
B-10d1.0	04/02/14	14:50	1	X		X	X	28
B-10d3.0	04/02/14	15:08	1	X		X	X	29
B-10d4.5	04/02/14	15:06	1	X	X		X	30

	Date	Time	
Relinquished by: KIFF Analytical LLC	040314	1700	Received by:
Relinquished by:			Received by:
Relinquished by:	4/3/14	1020	Received by Laboratory:

Remarks:

Bill to: Accounts Payable

Return to Contents

KIFF Analytical LLC
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714-895-5494

0314

COC No. **87896** Page 4 of 4

Chain-of-Custody Record and Analysis Request

EDF Report? NO

Project Contact (Hardcopy or PDF to): Scott Forbes
Company/Address: Kiff Analytical
Phone No.: 530-297-4800 FAX No.: 530-297-4808
Project Number: PUBLO7143 P.O. No.: **87896**
Project Name: PS Newark Phase II
Project Address:

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
Deliverables to (Email Address): inbox@kiffanalytical.com

Sample Designation	Sampling Date	Sampling Time	Container / Preservative: 4 Oz. Glass None	Matrix: Soil	Analysis Request: Hold Sub	Analysis Request: Organochlorine Pesticides	TAT: 72-Hours: Due 4/9/14	For Lab Use Only
B-11d1.0	04/02/14	15:16	1	X		X	X	31
B-11d3.0	04/02/14	15:20	1	X		X	X	32
B-11d4.5	04/02/14	15:18	1	X	X		X	33
B-12d1.0	04/02/14	15:30	1	X		X	X	34
B-12d3.0	04/02/14	15:37	1	X		X	X	35
B-12d4.5	04/02/14	15:35	1	X	X		X	36
B-13d1.0	04/02/14	15:40	1	X		X	X	37
B-13d3.0	04/02/14	15:45	1	X		X	X	38
B-13d4.5	04/02/14	15:43	1	X	X		X	39

		Date	Time		
Relinquished by:	Kiff Analytical LLC	040314	1700	Received by:	
Relinquished by:				Received by:	
Relinquished by:		4/4/14	1020	Received by Laboratory:	

Remarks:

Bill to: Accounts Payable

Return to Contents

0314

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DAVIS, CA 95618

Sent By: SAMPLE RECEIVINGX125
Phone#: (530)297-4800
wgt(lbs): 40
Reference: SUBS
Reference 2: 600

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CALSCIENCE ENVIRONMENTAL LABS **7440 LINCOLN WAY** **GARDEN GROVE, CA 92841** **SAMPLE RECEIVING (714)895-5494**	*Sort Code:* **ORG** *Special Services:* **Signature Required**

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 14-04-0314

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Kiefer

DATE: 04/04/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 1S

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A **Checked by:** 1S

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** LW3

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☐	☑
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** LW3

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** SR

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** LW3

Return to Contents

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if Known): **2.6** **ºC**

Antea™Group Laboratory Data Validation Sheet

Project/Client: Public Storage

Project #: PUBL07143

Date of Validation: 8/5/14 **Date of Analysis:** 4/8/14

Sample Date: 4/1 – 4/2/14 **Completed By:** S. Morden

Signature: S. Morden

Circle or Highlight Yes / No (below)

Analytical Lab Used and Report # (if any): Kiff Analytical Report #87896

1.	Were the analyses the ones requested?	**Yes** / No
2.	Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	**Yes** / No
3.	Were samples prepared (extracted, filtered, etc.) within EPA holding times?	**Yes** / No
4.	Once prepared/extracted, were the samples analyzed within the EPA holding times?	**Yes** / No
5.	Were Laboratory blanks performed, if so, were they non-detect?	**Yes** / No
6.	Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	**Yes** / No
7.	Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	**Yes** / No
8.	In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	**Yes** / No
9.	Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the analyte)?	Yes / **No**
10.	Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	**Yes** / No
11.	Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?	**Yes** / No

If any answer is no, explain why and what corrective action was taken (use additional sheet(s), as necessary:

Recoveries for some Matrix Spike/Matrix Spike Duplicate analytes were outside of control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Laboratory Results

Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Subject : 15 Soil Samples
Project Name : Public Storage - Newark
Project Number : PUBL07143
P.O. Number : PUBL07143

Dear Ms. Persaud,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab # 08263CA.
If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Subject : 15 Soil Samples
Project Name : Public Storage - Newark
Project Number : PUBL07143
P.O. Number : PUBL07143

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

Recoveries for some Matrix Spike/ Matrix Spike Duplicate analytes were outside control limits. This may indicate a bias for the samples that were spiked. Since the LCS recoveries were within control limits, no data are flagged.

A version of this report was previously issued on 07/28/14. This revised version replaces that report.

KIFF Analytical LLC

Analysis Summary

Report Number : 88762
Date : 08/01/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :Public Storage - Newark
Project Number : PUBL07143

			Sample Name	B-14d2.0	B-14d5.0		B-15d2.0		B-15d5.0		B-16d2.0		B-16d5.0		B-17d2.0	
			Sample Date	07/22/14	07/22/14		07/22/14		07/22/14		07/22/14		07/22/14		07/22/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Antimony	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND
Arsenic	EPA 6010B	mg/Kg		0.75	**6.8**	0.75	**7.4**	0.75	**7.4**	0.75	**8.0**	0.75	**7.4**	0.75	**9.0**	0.75	**6.1**
Barium	EPA 6010B	mg/Kg		0.50	**190**	0.50	**220**	0.50	**190**	0.50	**210**	0.50	**200**	0.50	**250**	0.50	**180**
Beryllium	EPA 6010B	mg/Kg		0.25	**0.37**	0.25	**0.44**	0.25	**0.38**	0.25	**0.43**	0.25	**0.43**	0.25	**0.49**	0.25	**0.34**
Cadmium	EPA 6010B	mg/Kg		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Chromium	EPA 6010B	mg/Kg		0.25	**78**	0.25	**70**	0.25	**78**	0.25	**79**	0.25	**82**	0.25	**89**	0.25	**68**
Cobalt	EPA 6010B	mg/Kg		0.25	**12**	0.25	**12**	0.25	**12**	0.25	**12**	0.25	**14**	0.25	**13**	0.25	**12**
Copper	EPA 6010B	mg/Kg		0.50	**32**	0.50	**33**	0.50	**32**	0.50	**36**	0.50	**35**	0.50	**35**	0.50	**25**
Lead	EPA 6010B	mg/Kg		0.50	**14**	0.50	**25**	0.50	**18**	0.50	**35**	0.50	**13**	0.50	**18**	0.50	**7.4**
Mercury	EPA 7471A	mg/Kg		0.050	ND	0.050	ND	0.050	**0.27**	0.050	ND	0.050	**0.12**	0.050	**0.094**	0.050	ND
Molybdenum	EPA 6010B	mg/Kg		0.25	**0.73**	0.25	**1.5**	0.25	**0.43**	0.25	**1.7**	0.25	**0.57**	0.25	**0.52**	0.25	**0.36**
Nickel	EPA 6010B	mg/Kg		0.25	**88**	0.25	**74**	0.25	**89**	0.25	**74**	0.25	**86**	0.25	**90**	0.25	**78**
Selenium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND
Silver	EPA 6010B	mg/Kg		0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND
Thallium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND
Vanadium	EPA 6010B	mg/Kg		0.25	**37**	0.25	**42**	0.25	**38**	0.25	**41**	0.25	**48**	0.25	**45**	0.25	**37**
Zinc	EPA 6010B	mg/Kg		1.0	**94**	1.0	**180**	1.0	**150**	1.0	**190**	1.0	**100**	1.0	**130**	1.0	**53**
1,1,1,2-Tetrachloroethane	EPA 8260B	mg/Kg		0.0050	ND												
1,1,1-Trichloroethane	EPA 8260B	mg/Kg		0.0050	ND												
1,1,2,2-Tetrachloroethane	EPA 8260B	mg/Kg		0.0050	ND												

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 88762

Date : 08/01/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :Public Storage - Newark
Project Number : PUBL07143

			Sample Name	B-14d2.0	B-14d5.0		B-15d2.0		B-15d5.0		B-16d2.0		B-16d5.0		B-17d2.0	
			Sample Date	07/22/14	07/22/14		07/22/14		07/22/14		07/22/14		07/22/14		07/22/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
1,1,2-Trichloroethane	EPA 8260B	mg/Kg		0.0050	ND												
1,1-Dichloroethane	EPA 8260B	mg/Kg		0.0050	ND												
1,1-Dichloroethene	EPA 8260B	mg/Kg		0.0050	ND												
1,1-Dichloropropene	EPA 8260B	mg/Kg		0.0050	ND												
1,2,3-Trichlorobenzene	EPA 8260B	mg/Kg		0.0050	ND												
1,2,3-Trichloropropane	EPA 8260B	mg/Kg		0.0050	ND												
1,2,4-Trichlorobenzene	EPA 8260B	mg/Kg		0.0050	ND												
1,2,4-Trimethylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
1,2-Dibromo-3-chloropropane	EPA 8260B	mg/Kg		0.0050	ND												
1,2-Dibromoethane	EPA 8260B	mg/Kg		0.0050	ND												
1,2-Dichlorobenzene	EPA 8260B	mg/Kg		0.0050	ND												
1,2-Dichloroethane	EPA 8260B	mg/Kg		0.0050	ND												
1,2-Dichloropropane	EPA 8260B	mg/Kg		0.0050	ND												
1,3,5-Trimethylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
1,3-Dichlorobenzene	EPA 8260B	mg/Kg		0.0050	ND												
1,3-Dichloropropane	EPA 8260B	mg/Kg		0.0050	ND												
1,4-Dichlorobenzene	EPA 8260B	mg/Kg		0.0050	ND												
2+4-Chlorotoluene	EPA 8260B	mg/Kg		0.0050	ND												
2,2-Dichloropropane	EPA 8260B	mg/Kg		0.0050	ND												
Benzene	EPA 8260B	mg/Kg		0.0050	ND												

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 88762

Date : 08/01/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :Public Storage - Newark
Project Number : PUBL07143

			Sample Name	B-14d2.0	B-14d5.0		B-15d2.0		B-15d5.0		B-16d2.0		B-16d5.0		B-17d2.0	
			Sample Date	07/22/14	07/22/14		07/22/14		07/22/14		07/22/14		07/22/14		07/22/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Bromobenzene	EPA 8260B	mg/Kg		0.0050	ND												
Bromochloromethane	EPA 8260B	mg/Kg		0.0050	ND												
Bromodichloromethane	EPA 8260B	mg/Kg		0.0050	ND												
Bromoform	EPA 8260B	mg/Kg		0.0050	ND												
Bromomethane	EPA 8260B	mg/Kg		0.020	ND												
Carbon Tetrachloride	EPA 8260B	mg/Kg		0.0050	ND												
Chlorobenzene	EPA 8260B	mg/Kg		0.0050	ND												
Chloroethane	EPA 8260B	mg/Kg		0.0050	ND												
Chloroform	EPA 8260B	mg/Kg		0.0050	ND												
Chloromethane	EPA 8260B	mg/Kg		0.0050	ND												
Dibromochloromethane	EPA 8260B	mg/Kg		0.0050	ND												
Dibromomethane	EPA 8260B	mg/Kg		0.0050	ND												
Dichlorodifluoromethane	EPA 8260B	mg/Kg		0.0050	ND												
Ethylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
Hexachlorobutadiene	EPA 8260B	mg/Kg		0.0050	ND												
Isopropyl benzene	EPA 8260B	mg/Kg		0.0050	ND												
Methylene Chloride	EPA 8260B	mg/Kg		0.0050	ND												
Naphthalene	EPA 8260B	mg/Kg		0.0050	ND												
O-Xylene	EPA 8260B	mg/Kg		0.0050	ND												
P,M-Xylene	EPA 8260B	mg/Kg		0.0050	ND												

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 88762
Date : 08/01/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :Public Storage - Newark
Project Number : PUBL07143

			Sample Name	B-14d2.0	B-14d5.0		B-15d2.0		B-15d5.0		B-16d2.0		B-16d5.0		B-17d2.0	
			Sample Date	07/22/14	07/22/14		07/22/14		07/22/14		07/22/14		07/22/14		07/22/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Styrene	EPA 8260B	mg/Kg		0.0050	ND												
Tetrachloroethene	EPA 8260B	mg/Kg		0.0050	ND												
Toluene	EPA 8260B	mg/Kg		0.0050	ND												
Trichloroethene	EPA 8260B	mg/Kg		0.0050	ND												
Trichlorofluoromethane	EPA 8260B	mg/Kg		0.0050	ND												
Vinyl Chloride	EPA 8260B	mg/Kg		0.0050	ND												
cis-1,2-Dichloroethene	EPA 8260B	mg/Kg		0.0050	ND												
cis-1,3-Dichloropropene	EPA 8260B	mg/Kg		0.0050	ND												
n-Butylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
n-Propylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
p-Isopropyltoluene	EPA 8260B	mg/Kg		0.0050	ND												
sec-Butylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
tert-Butylbenzene	EPA 8260B	mg/Kg		0.0050	ND												
trans-1,2-Dichloroethene	EPA 8260B	mg/Kg		0.0050	ND												
trans-1,3-Dichloropropene	EPA 8260B	mg/Kg		0.0050	ND												
1,2-Dichloroethane-d4 (Surr)	EPA 8260B	%			108												
4-Bromofluorobenzene (Surr)	EPA 8260B	%			99.9												
Toluene - d8 (Surr)	EPA 8260B	%			102												

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 88762

Date : 08/01/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :Public Storage - Newark
Project Number : PUBL07143

			Sample Name	B-17d5.0	B-17d7.0		B-18d2.0		B-18d5.0		B-18d7.0		B-19d2.0		B-19d5.0	
			Sample Date	07/22/14	07/22/14		07/22/14		07/22/14		07/22/14		07/22/14		07/22/14	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Antimony	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	ND	0.75	**1.2**
Arsenic	EPA 6010B	mg/Kg		0.75	**7.2**	0.75	**7.6**	0.75	**5.4**	1.4	**8.9**	0.75	**6.6**	0.75	**7.4**	1.5	**9.5**
Barium	EPA 6010B	mg/Kg		0.50	**270**	0.50	**210**	0.50	**370**	0.50	**470**	0.50	**220**	0.50	**210**	0.50	**510**
Beryllium	EPA 6010B	mg/Kg		0.25	**0.34**	0.25	**0.36**	0.25	**0.46**	0.25	**0.52**	0.25	**0.53**	0.25	**0.43**	0.25	**0.32**
Cadmium	EPA 6010B	mg/Kg		0.50	**1.3**	0.50	ND	0.50	**0.96**	0.50	**11**	0.50	ND	0.50	ND	0.50	**9.0**
Chromium	EPA 6010B	mg/Kg		0.25	**400**	0.25	**76**	0.25	**210**	0.25	**790**	0.25	**120**	0.25	**78**	0.25	**780**
Cobalt	EPA 6010B	mg/Kg		0.25	**9.9**	0.25	**12**	0.25	**20**	0.25	**9.2**	0.25	**14**	0.25	**13**	0.25	**9.9**
Copper	EPA 6010B	mg/Kg		0.50	**120**	0.50	**44**	0.50	**94**	0.50	**370**	0.50	**32**	0.50	**35**	0.50	**320**
Lead	EPA 6010B	mg/Kg		0.50	**150**	0.50	**17**	0.50	**94**	47	**850**	0.50	**14**	0.50	**9.1**	50	**1000**
Mercury	EPA 7471A	mg/Kg		0.050	ND	0.050	ND	0.050	ND	0.050	**0.19**	0.050	**0.15**	0.050	ND	0.050	**0.054**
Molybdenum	EPA 6010B	mg/Kg		0.25	**5.0**	0.25	**0.76**	0.25	**2.1**	0.25	**17**	0.25	**0.43**	0.25	**0.48**	0.25	**19**
Nickel	EPA 6010B	mg/Kg		0.25	**73**	0.25	**83**	0.25	**79**	0.25	**90**	0.25	**86**	0.25	**91**	0.25	**100**
Selenium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	1.4	ND	0.75	ND	0.75	ND	1.5	ND
Silver	EPA 6010B	mg/Kg		0.25	**0.33**	0.25	ND	0.25	ND	0.47	**1.8**	0.25	ND	0.25	ND	0.50	**1.2**
Thallium	EPA 6010B	mg/Kg		0.75	ND	0.75	ND	0.75	ND	1.4	ND	0.75	ND	0.75	ND	1.5	ND
Vanadium	EPA 6010B	mg/Kg		0.25	**45**	0.25	**39**	0.25	**65**	23	**60**	0.25	**47**	0.25	**44**	25	**59**
Zinc	EPA 6010B	mg/Kg		9.6	**830**	1.0	**110**	10	**600**	93	**5000**	1.0	**110**	1.0	**69**	99	**5500**

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Analysis Summary

Report Number : 88762
Date : 08/01/14

Attention : Nicole Persaud
Antea Group
1155 North 1st Street, Suite 201
San Jose, CA 95112

Project Name :Public Storage - Newark
Project Number : PUBL07143

			Sample Name	B-19d7.0
			Sample Date	07/22/14
Analyte	Method	Units	MRL	Results
Antimony	EPA 6010B	mg/Kg	0.75	ND
Arsenic	EPA 6010B	mg/Kg	1.4	**9.6**
Barium	EPA 6010B	mg/Kg	0.50	**420**
Beryllium	EPA 6010B	mg/Kg	0.25	**0.49**
Cadmium	EPA 6010B	mg/Kg	0.50	**5.3**
Chromium	EPA 6010B	mg/Kg	0.25	**880**
Cobalt	EPA 6010B	mg/Kg	0.25	**8.8**
Copper	EPA 6010B	mg/Kg	0.50	**210**
Lead	EPA 6010B	mg/Kg	0.94	**630**
Mercury	EPA 7471A	mg/Kg	0.050	ND
Molybdenum	EPA 6010B	mg/Kg	0.25	**13**
Nickel	EPA 6010B	mg/Kg	0.25	**66**
Selenium	EPA 6010B	mg/Kg	1.4	ND
Silver	EPA 6010B	mg/Kg	0.47	**1.1**
Thallium	EPA 6010B	mg/Kg	1.4	ND
Vanadium	EPA 6010B	mg/Kg	0.47	**69**
Zinc	EPA 6010B	mg/Kg	9.4	**2900**

MRL = Method Reporting Limit
ND = Not Detected

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Sample : **B-14d2.0**
Project Name : **Public Storage - Newark**
Project Number : **PUBL07143** Lab Number : 88762-01
Matrix : Soil Sample Date :07/22/2014 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Chloromethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Bromomethane	< 0.020	0.020	mg/Kg	07/24/14 23:27
Chloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Methylene Chloride	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Chloroform	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Bromochloromethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Benzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Trichloroethene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Dibromomethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Toluene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Chlorobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Ethylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Sample : **B-14d2.0**
Project Name : **Public Storage - Newark**
Project Number : **PUBL07143** Lab Number : 88762-01
Matrix : Soil Sample Date :07/22/2014 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
P,M-Xylene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
O-Xylene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Styrene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Isopropyl benzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Bromoform	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
n-Propylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Bromobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
n-Butylbenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
Naphthalene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	07/24/14 23:27
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	07/24/14 23:27
4-Bromofluorobenzene (Surr)	99.9		% Recovery	07/24/14 23:27
Toluene - d8 (Surr)	102		% Recovery	07/24/14 23:27

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-14d2.0** Matrix : Soil Lab Number : 88762-01
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:11
Arsenic	**6.8**	0.75	mg/Kg	EPA 6010B	07/25/14 15:11
Barium	**190**	0.50	mg/Kg	EPA 6010B	07/25/14 15:11
Beryllium	**0.37**	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 15:11
Chromium	**78**	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Copper	**32**	0.50	mg/Kg	EPA 6010B	07/25/14 15:11
Lead	**14**	0.50	mg/Kg	EPA 6010B	07/25/14 15:11
Molybdenum	**0.73**	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Nickel	**88**	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:11
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:11
Vanadium	**37**	0.25	mg/Kg	EPA 6010B	07/25/14 15:11
Zinc	**94**	1.0	mg/Kg	EPA 6010B	07/25/14 15:11
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 14:51

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-14d5.0** Matrix : Soil Lab Number : 88762-02
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:26
Arsenic	**7.4**	0.75	mg/Kg	EPA 6010B	07/25/14 15:26
Barium	**220**	0.50	mg/Kg	EPA 6010B	07/25/14 15:26
Beryllium	**0.44**	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 15:26
Chromium	**70**	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Copper	**33**	0.50	mg/Kg	EPA 6010B	07/25/14 15:26
Lead	**25**	0.50	mg/Kg	EPA 6010B	07/25/14 15:26
Molybdenum	**1.5**	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Nickel	**74**	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:26
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:26
Vanadium	**42**	0.25	mg/Kg	EPA 6010B	07/25/14 15:26
Zinc	**180**	1.0	mg/Kg	EPA 6010B	07/25/14 15:26
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 14:56

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-15d2.0** Matrix : Soil Lab Number : 88762-04
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:31
Arsenic	**7.4**	0.75	mg/Kg	EPA 6010B	07/25/14 15:31
Barium	**190**	0.50	mg/Kg	EPA 6010B	07/25/14 15:31
Beryllium	**0.38**	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 15:31
Chromium	**78**	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Copper	**32**	0.50	mg/Kg	EPA 6010B	07/25/14 15:31
Lead	**18**	0.50	mg/Kg	EPA 6010B	07/25/14 15:31
Molybdenum	**0.43**	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Nickel	**89**	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:31
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:31
Vanadium	**38**	0.25	mg/Kg	EPA 6010B	07/25/14 15:31
Zinc	**150**	1.0	mg/Kg	EPA 6010B	07/25/14 15:31
Mercury	**0.27**	0.050	mg/Kg	EPA 7471A	07/24/14 14:57

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-15d5.0** Matrix : Soil Lab Number : 88762-05
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:28
Arsenic	**8.0**	0.75	mg/Kg	EPA 6010B	07/25/14 16:28
Barium	**210**	0.50	mg/Kg	EPA 6010B	07/25/14 16:28
Beryllium	**0.43**	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 16:28
Chromium	**79**	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Copper	**36**	0.50	mg/Kg	EPA 6010B	07/25/14 16:28
Lead	**35**	0.50	mg/Kg	EPA 6010B	07/25/14 16:28
Molybdenum	**1.7**	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Nickel	**74**	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:28
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:28
Vanadium	**41**	0.25	mg/Kg	EPA 6010B	07/25/14 16:28
Zinc	**190**	1.0	mg/Kg	EPA 6010B	07/25/14 16:28
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 14:59

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-16d2.0** Matrix : Soil Lab Number : 88762-07
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:47
Arsenic	**7.4**	0.75	mg/Kg	EPA 6010B	07/25/14 15:47
Barium	**200**	0.50	mg/Kg	EPA 6010B	07/25/14 15:47
Beryllium	**0.43**	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 15:47
Chromium	**82**	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Copper	**35**	0.50	mg/Kg	EPA 6010B	07/25/14 15:47
Lead	**13**	0.50	mg/Kg	EPA 6010B	07/25/14 15:47
Molybdenum	**0.57**	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Nickel	**86**	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:47
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:47
Vanadium	**48**	0.25	mg/Kg	EPA 6010B	07/25/14 15:47
Zinc	**100**	1.0	mg/Kg	EPA 6010B	07/25/14 15:47
Mercury	**0.12**	0.050	mg/Kg	EPA 7471A	07/24/14 15:00

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-16d5.0** Matrix : Soil Lab Number : 88762-08
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:52
Arsenic	**9.0**	0.75	mg/Kg	EPA 6010B	07/25/14 15:52
Barium	**250**	0.50	mg/Kg	EPA 6010B	07/25/14 15:52
Beryllium	**0.49**	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 15:52
Chromium	**89**	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Cobalt	**13**	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Copper	**35**	0.50	mg/Kg	EPA 6010B	07/25/14 15:52
Lead	**18**	0.50	mg/Kg	EPA 6010B	07/25/14 15:52
Molybdenum	**0.52**	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Nickel	**90**	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:52
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:52
Vanadium	**45**	0.25	mg/Kg	EPA 6010B	07/25/14 15:52
Zinc	**130**	1.0	mg/Kg	EPA 6010B	07/25/14 15:52
Mercury	**0.094**	0.050	mg/Kg	EPA 7471A	07/24/14 15:02

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-17d2.0** Matrix : Soil Lab Number : 88762-10
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:57
Arsenic	**6.1**	0.75	mg/Kg	EPA 6010B	07/25/14 15:57
Barium	**180**	0.50	mg/Kg	EPA 6010B	07/25/14 15:57
Beryllium	**0.34**	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 15:57
Chromium	**68**	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Copper	**25**	0.50	mg/Kg	EPA 6010B	07/25/14 15:57
Lead	**7.4**	0.50	mg/Kg	EPA 6010B	07/25/14 15:57
Molybdenum	**0.36**	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Nickel	**78**	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:57
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 15:57
Vanadium	**37**	0.25	mg/Kg	EPA 6010B	07/25/14 15:57
Zinc	**53**	1.0	mg/Kg	EPA 6010B	07/25/14 15:57
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 15:06

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-17d5.0** Matrix : Soil Lab Number : 88762-11
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:02
Arsenic	**7.2**	0.75	mg/Kg	EPA 6010B	07/25/14 16:02
Barium	**270**	0.50	mg/Kg	EPA 6010B	07/25/14 16:02
Beryllium	**0.34**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Cadmium	**1.3**	0.50	mg/Kg	EPA 6010B	07/25/14 16:02
Chromium	**400**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Cobalt	**9.9**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Copper	**120**	0.50	mg/Kg	EPA 6010B	07/25/14 16:02
Lead	**150**	0.50	mg/Kg	EPA 6010B	07/25/14 16:02
Molybdenum	**5.0**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Nickel	**73**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:02
Silver	**0.33**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:02
Vanadium	**45**	0.25	mg/Kg	EPA 6010B	07/25/14 16:02
Zinc	**830**	9.6	mg/Kg	EPA 6010B	07/25/14 14:48
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 15:08

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-17d7.0** Matrix : Soil Lab Number : 88762-12
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:37
Arsenic	**7.6**	0.75	mg/Kg	EPA 6010B	08/01/14 12:37
Barium	**210**	0.50	mg/Kg	EPA 6010B	08/01/14 12:37
Beryllium	**0.36**	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	08/01/14 12:37
Chromium	**76**	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Cobalt	**12**	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Copper	**44**	0.50	mg/Kg	EPA 6010B	08/01/14 12:37
Lead	**17**	0.50	mg/Kg	EPA 6010B	08/01/14 12:37
Molybdenum	**0.76**	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Nickel	**83**	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:37
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:37
Vanadium	**39**	0.25	mg/Kg	EPA 6010B	08/01/14 12:37
Zinc	**110**	1.0	mg/Kg	EPA 6010B	08/01/14 12:37
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	08/01/14 15:15

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-18d2.0** Matrix : Soil Lab Number : 88762-13
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:07
Arsenic	**5.4**	0.75	mg/Kg	EPA 6010B	07/25/14 16:07
Barium	**370**	0.50	mg/Kg	EPA 6010B	07/25/14 16:07
Beryllium	**0.46**	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Cadmium	**0.96**	0.50	mg/Kg	EPA 6010B	07/25/14 16:07
Chromium	**210**	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Cobalt	**20**	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Copper	**94**	0.50	mg/Kg	EPA 6010B	07/25/14 16:07
Lead	**94**	0.50	mg/Kg	EPA 6010B	07/25/14 16:07
Molybdenum	**2.1**	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Nickel	**79**	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:07
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:07
Vanadium	**65**	0.25	mg/Kg	EPA 6010B	07/25/14 16:07
Zinc	**600**	10	mg/Kg	EPA 6010B	07/25/14 14:54
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 15:09

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-18d5.0** Matrix : Soil Lab Number : 88762-14
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 13:00
Arsenic	**8.9**	1.4	mg/Kg	EPA 6010B	07/28/14 13:32
Barium	**470**	0.50	mg/Kg	EPA 6010B	07/25/14 13:00
Beryllium	**0.52**	0.25	mg/Kg	EPA 6010B	07/25/14 13:00
Cadmium	**11**	0.50	mg/Kg	EPA 6010B	07/25/14 13:00
Chromium	**790**	0.25	mg/Kg	EPA 6010B	07/25/14 13:00
Cobalt	**9.2**	0.25	mg/Kg	EPA 6010B	07/25/14 13:00
Copper	**370**	0.50	mg/Kg	EPA 6010B	07/25/14 13:00
Lead	**850**	47	mg/Kg	EPA 6010B	07/25/14 14:59
Molybdenum	**17**	0.25	mg/Kg	EPA 6010B	07/25/14 13:00
Nickel	**90**	0.25	mg/Kg	EPA 6010B	07/25/14 13:00
Selenium	< 1.4	1.4	mg/Kg	EPA 6010B	07/28/14 13:32
Silver	**1.8**	0.47	mg/Kg	EPA 6010B	07/28/14 13:32
Thallium	< 1.4	1.4	mg/Kg	EPA 6010B	07/28/14 13:32
Vanadium	**60**	23	mg/Kg	EPA 6010B	07/25/14 14:59
Zinc	**5000**	93	mg/Kg	EPA 6010B	07/25/14 14:59
Mercury	**0.19**	0.050	mg/Kg	EPA 7471A	07/24/14 15:11

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-18d7.0** Matrix : Soil Lab Number : 88762-15
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:52
Arsenic	**6.6**	0.75	mg/Kg	EPA 6010B	08/01/14 12:52
Barium	**220**	0.50	mg/Kg	EPA 6010B	08/01/14 12:52
Beryllium	**0.53**	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	08/01/14 12:52
Chromium	**120**	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Cobalt	**14**	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Copper	**32**	0.50	mg/Kg	EPA 6010B	08/01/14 12:52
Lead	**14**	0.50	mg/Kg	EPA 6010B	08/01/14 12:52
Molybdenum	**0.43**	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Nickel	**86**	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:52
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:52
Vanadium	**47**	0.25	mg/Kg	EPA 6010B	08/01/14 12:52
Zinc	**110**	1.0	mg/Kg	EPA 6010B	08/01/14 12:52
Mercury	**0.15**	0.050	mg/Kg	EPA 7471A	08/01/14 15:19

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-19d2.0** Matrix : Soil Lab Number : 88762-16
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:17
Arsenic	**7.4**	0.75	mg/Kg	EPA 6010B	07/25/14 16:17
Barium	**210**	0.50	mg/Kg	EPA 6010B	07/25/14 16:17
Beryllium	**0.43**	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/14 16:17
Chromium	**78**	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Cobalt	**13**	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Copper	**35**	0.50	mg/Kg	EPA 6010B	07/25/14 16:17
Lead	**9.1**	0.50	mg/Kg	EPA 6010B	07/25/14 16:17
Molybdenum	**0.48**	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Nickel	**91**	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:17
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/14 16:17
Vanadium	**44**	0.25	mg/Kg	EPA 6010B	07/25/14 16:17
Zinc	**69**	1.0	mg/Kg	EPA 6010B	07/25/14 16:17
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/14 15:13

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-19d5.0** Matrix : Soil Lab Number : 88762-17
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	**1.2**	0.75	mg/Kg	EPA 6010B	07/25/14 13:11
Arsenic	**9.5**	1.5	mg/Kg	EPA 6010B	07/28/14 13:37
Barium	**510**	0.50	mg/Kg	EPA 6010B	07/25/14 13:11
Beryllium	**0.32**	0.25	mg/Kg	EPA 6010B	07/25/14 13:11
Cadmium	**9.0**	0.50	mg/Kg	EPA 6010B	07/25/14 13:11
Chromium	**780**	0.25	mg/Kg	EPA 6010B	07/25/14 13:11
Cobalt	**9.9**	0.25	mg/Kg	EPA 6010B	07/25/14 13:11
Copper	**320**	0.50	mg/Kg	EPA 6010B	07/25/14 13:11
Lead	**1000**	50	mg/Kg	EPA 6010B	07/25/14 15:03
Molybdenum	**19**	0.25	mg/Kg	EPA 6010B	07/25/14 13:11
Nickel	**100**	0.25	mg/Kg	EPA 6010B	07/25/14 13:11
Selenium	< 1.5	1.5	mg/Kg	EPA 6010B	07/28/14 13:37
Silver	**1.2**	0.50	mg/Kg	EPA 6010B	07/28/14 13:37
Thallium	< 1.5	1.5	mg/Kg	EPA 6010B	07/28/14 13:37
Vanadium	**59**	25	mg/Kg	EPA 6010B	07/25/14 15:03
Zinc	**5500**	99	mg/Kg	EPA 6010B	07/25/14 15:03
Mercury	**0.054**	0.050	mg/Kg	EPA 7471A	07/24/14 15:14

KIFF Analytical LLC

Report Number : 88762
Date : 08/01/2014

Project Name : **Public Storage - Newark**
Project Number : **PUBL07143**

Sample : **B-19d7.0** Matrix : Soil Lab Number : 88762-18
Sample Date :07/22/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/14 12:57
Arsenic	**9.6**	1.4	mg/Kg	EPA 6010B	08/01/14 14:12
Barium	**420**	0.50	mg/Kg	EPA 6010B	08/01/14 12:57
Beryllium	**0.49**	0.25	mg/Kg	EPA 6010B	08/01/14 12:57
Cadmium	**5.3**	0.50	mg/Kg	EPA 6010B	08/01/14 12:57
Chromium	**880**	0.25	mg/Kg	EPA 6010B	08/01/14 12:57
Cobalt	**8.8**	0.25	mg/Kg	EPA 6010B	08/01/14 12:57
Copper	**210**	0.50	mg/Kg	EPA 6010B	08/01/14 12:57
Lead	**630**	0.94	mg/Kg	EPA 6010B	08/01/14 14:12
Molybdenum	**13**	0.25	mg/Kg	EPA 6010B	08/01/14 12:57
Nickel	**66**	0.25	mg/Kg	EPA 6010B	08/01/14 12:57
Selenium	< 1.4	1.4	mg/Kg	EPA 6010B	08/01/14 14:12
Silver	**1.1**	0.47	mg/Kg	EPA 6010B	08/01/14 14:12
Thallium	< 1.4	1.4	mg/Kg	EPA 6010B	08/01/14 14:12
Vanadium	**69**	0.47	mg/Kg	EPA 6010B	08/01/14 14:12
Zinc	**2900**	9.4	mg/Kg	EPA 6010B	08/01/14 14:09
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	08/01/14 15:21

Report Number : 88762

Date : 08/01/2014

QC Report : Method Blank Data

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/2014
Arsenic	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/2014
Barium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/2014
Beryllium	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/2014
Chromium	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Cobalt	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Copper	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/2014
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	07/25/2014
Molybdenum	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Nickel	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/2014
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	07/25/2014
Vanadium	< 0.25	0.25	mg/Kg	EPA 6010B	07/25/2014
Zinc	< 1.0	1.0	mg/Kg	EPA 6010B	07/25/2014
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	07/24/2014
Antimony	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/2014
Arsenic	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/2014
Barium	< 0.50	0.50	mg/Kg	EPA 6010B	08/01/2014
Beryllium	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Cadmium	< 0.50	0.50	mg/Kg	EPA 6010B	08/01/2014
Chromium	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Cobalt	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Copper	< 0.50	0.50	mg/Kg	EPA 6010B	08/01/2014
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	08/01/2014
Molybdenum	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Nickel	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Selenium	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/2014
Silver	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Thallium	< 0.75	0.75	mg/Kg	EPA 6010B	08/01/2014
Vanadium	< 0.25	0.25	mg/Kg	EPA 6010B	08/01/2014
Zinc	< 1.0	1.0	mg/Kg	EPA 6010B	08/01/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Mercury	< 0.050	0.050	mg/Kg	EPA 7471A	08/01/2014
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Bromobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Bromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Bromomethane	< 0.020	0.020	mg/Kg	EPA 8260B	07/24/2014
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014

Report Number : 88762

Date : 08/01/2014

QC Report : Method Blank Data

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Dibromomethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Isopropyl benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
n-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
n-Propylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	07/24/2014
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	07/24/2014
4-Bromofluorobenzene (Surr)	99.3		%	EPA 8260B	07/24/2014
Toluene - d8 (Surr)	102		%	EPA 8260B	07/24/2014

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Antimony														
	88762-01	< 0.75	46.7	46.7	6.66	7.42	mg/Kg	EPA 6010B	7/25/14	**14.2**	**15.9**	10.8	75-125	20
Arsenic														
	88762-01	6.7	46.7	46.7	52.6	57.3	mg/Kg	EPA 6010B	7/25/14	98.2	108	8.53	75-125	20
Barium														
	88762-01	180	46.7	46.7	264	242	mg/Kg	EPA 6010B	7/25/14	**177**	**131**	8.52	75-125	20
Beryllium														
	88762-01	0.38	46.7	46.7	42.7	45.7	mg/Kg	EPA 6010B	7/25/14	90.5	97.0	6.80	75-125	20
Cadmium														
	88762-01	< 0.50	46.7	46.7	44.3	48.0	mg/Kg	EPA 6010B	7/25/14	94.2	102	7.92	75-125	20
Chromium														
	88762-01	77	46.7	46.7	126	133	mg/Kg	EPA 6010B	7/25/14	106	122	5.58	75-125	20
Cobalt														
	88762-01	12	46.7	46.7	56.1	59.8	mg/Kg	EPA 6010B	7/25/14	94.7	102	6.28	75-125	20
Copper														
	88762-01	32	46.7	46.7	78.2	92.1	mg/Kg	EPA 6010B	7/25/14	98.6	**128**	16.4	75-125	20
Lead														
	88762-01	14	46.7	46.7	49.8	55.2	mg/Kg	EPA 6010B	7/25/14	76.7	88.1	10.2	75-125	20
Molybdenum														
	88762-01	0.71	46.7	46.7	41.2	44.6	mg/Kg	EPA 6010B	7/25/14	86.8	93.9	7.79	75-125	20

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Nickel														
	88762-01	88	46.7	46.7	140	147	mg/Kg	EPA 6010B	7/25/14	112	**127**	5.09	75-125	20
Selenium														
	88762-01	< 0.75	46.7	46.7	45.4	49.7	mg/Kg	EPA 6010B	7/25/14	97.3	106	8.86	75-125	20
Silver														
	88762-01	< 0.25	23.4	23.4	23.0	24.8	mg/Kg	EPA 6010B	7/25/14	97.9	105	7.31	75-125	20
Thallium														
	88762-01	< 0.75	46.7	46.7	40.1	43.4	mg/Kg	EPA 6010B	7/25/14	85.8	92.9	7.94	75-125	20
Vanadium														
	88762-01	38	46.7	46.7	85.3	88.5	mg/Kg	EPA 6010B	7/25/14	101	107	3.66	75-125	20
Zinc														
	88762-01	91	46.7	46.7	118	130	mg/Kg	EPA 6010B	7/25/14	**59.2**	84.3	9.43	75-125	20
Mercury														
	88762-01	< 0.050	0.100	0.100	0.143	0.135	mg/Kg	EPA 7471A	7/24/14	104	96.2	5.85	75-125	20
1,1,1,2-Tetrachloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0378	0.0383	mg/Kg	EPA 8260B	7/24/14	96.6	96.4	0.206	70.0-130	25
1,1,1-Trichloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0436	0.0456	mg/Kg	EPA 8260B	7/24/14	111	115	3.13	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1,2,2-Tetrachloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0304	0.0328	mg/Kg	EPA 8260B	7/24/14	77.7	82.8	6.27	70.0-130	25
1,1,2-Trichloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0371	0.0396	mg/Kg	EPA 8260B	7/24/14	94.9	99.7	4.96	70.0-130	25
1,1-Dichloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0376	0.0384	mg/Kg	EPA 8260B	7/24/14	96.1	96.9	0.860	70.0-130	25
1,1-Dichloroethene														
	88764-01	<0.0050	0.0391	0.0397	0.0358	0.0363	mg/Kg	EPA 8260B	7/24/14	91.6	91.4	0.108	70.0-130	25
1,1-Dichloropropene														
	88764-01	<0.0050	0.0391	0.0397	0.0361	0.0370	mg/Kg	EPA 8260B	7/24/14	92.3	93.2	0.998	70.0-130	25
1,2,3-Trichlorobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0176	0.0177	mg/Kg	EPA 8260B	7/24/14	**45.0**	**44.7**	0.628	65.0-130	25
1,2,3-Trichloropropane														
	88764-01	<0.0050	0.0391	0.0397	0.0346	0.0373	mg/Kg	EPA 8260B	7/24/14	88.5	94.0	6.05	70.0-130	25
1,2,4-Trichlorobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0163	0.0164	mg/Kg	EPA 8260B	7/24/14	**41.8**	**41.4**	0.742	70.0-130	25
1,2,4-Trimethylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0307	0.0308	mg/Kg	EPA 8260B	7/24/14	78.5	77.7	0.984	70.0-130	25
1,2-Dibromoethane														
	88764-01	<0.0050	0.0394	0.0400	0.0357	0.0378	mg/Kg	EPA 8260B	7/24/14	90.6	94.7	4.41	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichlorobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0248	0.0252	mg/Kg	EPA 8260B	7/24/14	**63.4**	**63.5**	0.131	70.0-130	25
1,2-Dichloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0412	0.0414	mg/Kg	EPA 8260B	7/24/14	105	104	0.903	70.0-130	25
1,2-Dichloropropane														
	88764-01	<0.0050	0.0391	0.0397	0.0345	0.0351	mg/Kg	EPA 8260B	7/24/14	88.2	88.5	0.402	70.0-130	25
1,2-dibromo-3-chloropropane														
	88764-01	<0.0050	0.0391	0.0397	0.0307	0.0336	mg/Kg	EPA 8260B	7/24/14	78.5	84.8	7.67	70.0-130	25
1,3,5-Trimethylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0319	0.0319	mg/Kg	EPA 8260B	7/24/14	81.4	80.3	1.37	70.0-130	25
1,3-Dichlorobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0248	0.0248	mg/Kg	EPA 8260B	7/24/14	**63.4**	**62.6**	1.33	70.0-130	25
1,3-Dichloropropane														
	88764-01	<0.0050	0.0391	0.0397	0.0354	0.0383	mg/Kg	EPA 8260B	7/24/14	90.6	96.5	6.32	70.0-130	25
1,4-Dichlorobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0229	0.0235	mg/Kg	EPA 8260B	7/24/14	**58.6**	**59.2**	1.06	70.0-130	25
2+4-Chlorotoluene														
	88764-01	<0.0050	0.0783	0.0794	0.0558	0.0561	mg/Kg	EPA 8260B	7/24/14	71.3	70.7	0.819	70.0-130	25
2,2-Dichloropropane														
	88764-01	<0.0050	0.0391	0.0397	0.0426	0.0424	mg/Kg	EPA 8260B	7/24/14	109	107	1.61	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene														
	88764-01	<0.0050	0.0391	0.0397	0.0359	0.0363	mg/Kg	EPA 8260B	7/24/14	91.8	91.4	0.384	70.0-130	25
Bromobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0300	0.0300	mg/Kg	EPA 8260B	7/24/14	76.7	75.5	1.55	70.0-130	25
Bromochloromethane														
	88764-01	<0.0050	0.0391	0.0397	0.0375	0.0390	mg/Kg	EPA 8260B	7/24/14	95.9	98.4	2.55	70.0-130	25
Bromodichloromethane														
	88764-01	<0.0050	0.0391	0.0397	0.0396	0.0413	mg/Kg	EPA 8260B	7/24/14	101	104	2.88	70.0-130	25
Bromoform														
	88764-01	<0.0050	0.0391	0.0397	0.0372	0.0379	mg/Kg	EPA 8260B	7/24/14	95.1	95.4	0.407	70.0-140	25
Bromomethane														
	88764-01	<0.020	0.196	0.198	0.216	0.223	mg/Kg	EPA 8260B	7/24/14	110	112	1.63	55.0-130	25
Carbon Tetrachloride														
	88764-01	<0.0050	0.0391	0.0397	0.0432	0.0446	mg/Kg	EPA 8260B	7/24/14	110	112	1.85	70.0-130	25
Chlorobenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0307	0.0313	mg/Kg	EPA 8260B	7/24/14	78.5	78.8	0.414	70.0-130	25
Chloroethane														
	88764-01	<0.0050	0.0391	0.0397	0.0321	0.0328	mg/Kg	EPA 8260B	7/24/14	82.0	82.6	0.800	70.0-130	25
Chloroform														
	88764-01	<0.0050	0.0391	0.0397	0.0392	0.0404	mg/Kg	EPA 8260B	7/24/14	100	102	1.52	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Chloromethane														
	88764-01	<0.0050	0.0391	0.0397	0.0290	0.0298	mg/Kg	EPA 8260B	7/24/14	74.0	75.2	1.52	60.0-130	25
Dibromochloromethane														
	88764-01	<0.0050	0.0391	0.0397	0.0394	0.0407	mg/Kg	EPA 8260B	7/24/14	101	102	1.76	70.0-130	25
Dibromomethane														
	88764-01	<0.0050	0.0391	0.0397	0.0404	0.0431	mg/Kg	EPA 8260B	7/24/14	103	109	5.15	70.0-130	25
Dichlorodifluoromethane														
	88764-01	<0.0050	0.0391	0.0397	0.0294	0.0305	mg/Kg	EPA 8260B	7/24/14	75.1	76.9	2.38	40.0-135	25
Ethylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0332	0.0333	mg/Kg	EPA 8260B	7/24/14	84.8	83.9	1.06	70.0-130	25
Hexachlorobutadiene														
	88764-01	<0.0050	0.0391	0.0397	0.0242	0.0225	mg/Kg	EPA 8260B	7/24/14	**62.0**	**56.8**	8.73	70.0-130	25
Isopropyl benzene														
	88764-01	<0.0050	0.0391	0.0397	0.0328	0.0338	mg/Kg	EPA 8260B	7/24/14	83.9	85.1	1.46	70.0-130	25
Methylene Chloride														
	88764-01	<0.0050	0.0391	0.0397	0.0374	0.0380	mg/Kg	EPA 8260B	7/24/14	95.5	95.9	0.407	70.0-130	25
Naphthalene														
	88764-01	<0.0050	0.0391	0.0397	0.0200	0.0210	mg/Kg	EPA 8260B	7/24/14	**51.1**	**52.9**	3.34	70.0-130	25
O-Xylene														
	88764-01	<0.0050	0.0391	0.0397	0.0337	0.0340	mg/Kg	EPA 8260B	7/24/14	86.0	85.7	0.408	70.0-130	25

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QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
P + M Xylene														
	88764-01	<0.0050	0.0391	0.0397	0.0324	0.0321	mg/Kg	EPA 8260B	7/24/14	82.8	80.9	2.30	70.0-130	25
Styrene														
	88764-01	<0.0050	0.0391	0.0397	0.0301	0.0302	mg/Kg	EPA 8260B	7/24/14	77.0	76.1	1.16	70.0-130	25
Tetrachloroethene														
	88764-01	<0.0050	0.0391	0.0397	0.0362	0.0367	mg/Kg	EPA 8260B	7/24/14	92.4	92.5	0.0695	70.0-130	25
Toluene														
	88764-01	<0.0050	0.0391	0.0397	0.0350	0.0362	mg/Kg	EPA 8260B	7/24/14	89.5	91.4	2.03	70.0-130	25
Trichloroethene														
	88764-01	<0.0050	0.0391	0.0397	0.0346	0.0362	mg/Kg	EPA 8260B	7/24/14	88.5	91.4	3.12	70.0-130	25
Trichlorofluoromethane														
	88764-01	<0.0050	0.0391	0.0397	0.0401	0.0411	mg/Kg	EPA 8260B	7/24/14	102	104	1.09	70.0-130	25
Vinyl Chloride														
	88764-01	<0.0050	0.0391	0.0397	0.0320	0.0323	mg/Kg	EPA 8260B	7/24/14	81.7	81.4	0.360	70.0-130	25
c-1,3-Dichloropropene														
	88764-01	<0.0050	0.0391	0.0397	0.0355	0.0367	mg/Kg	EPA 8260B	7/24/14	90.6	92.4	1.92	70.0-130	25
cis-1,2-Dichloroethene														
	88764-01	<0.0050	0.0391	0.0397	0.0368	0.0382	mg/Kg	EPA 8260B	7/24/14	94.0	96.2	2.30	70.0-130	25
n-butylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0234	0.0240	mg/Kg	EPA 8260B	7/24/14	**59.7**	**60.6**	1.40	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
n-propylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0304	0.0305	mg/Kg	EPA 8260B	7/24/14	77.6	76.8	0.949	70.0-130	25
p-isopropyltoluene														
	88764-01	<0.0050	0.0391	0.0397	0.0304	0.0300	mg/Kg	EPA 8260B	7/24/14	77.6	75.7	2.51	70.0-130	25
sec-butylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0306	0.0305	mg/Kg	EPA 8260B	7/24/14	78.2	76.9	1.58	70.0-130	25
t-1,2-Dichloroethene														
	88764-01	<0.0050	0.0391	0.0397	0.0352	0.0365	mg/Kg	EPA 8260B	7/24/14	90.0	91.9	2.05	70.0-130	25
t-1,3-Dichloropropene														
	88764-01	<0.0050	0.0391	0.0397	0.0368	0.0377	mg/Kg	EPA 8260B	7/24/14	94.2	95.0	0.881	70.0-130	25
tert-butylbenzene														
	88764-01	<0.0050	0.0391	0.0397	0.0329	0.0331	mg/Kg	EPA 8260B	7/24/14	84.0	83.3	0.756	70.0-130	25
Antimony														
	88762-12	< 0.75	47.2	47.2	4.71	4.28	mg/Kg	EPA 6010B	8/1/14	**9.98**	**9.08**	9.46	75-125	20
Arsenic														
	88762-12	7.6	47.2	47.2	54.6	52.6	mg/Kg	EPA 6010B	8/1/14	99.7	95.4	3.79	75-125	20
Barium														
	88762-12	210	47.2	47.2	243	228	mg/Kg	EPA 6010B	8/1/14	**72.1**	**38.4**	6.73	75-125	20

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Beryllium														
	88762-12	0.36	47.2	47.2	45.6	43.7	mg/Kg	EPA 6010B	8/1/14	95.9	91.9	4.18	75-125	20
Cadmium														
	88762-12	< 0.50	47.2	47.2	49.5	48.0	mg/Kg	EPA 6010B	8/1/14	104	101	3.05	75-125	20
Chromium														
	88762-12	76	47.2	47.2	135	111	mg/Kg	EPA 6010B	8/1/14	125	**72.8**	**20.1**	75-125	20
Cobalt														
	88762-12	12	47.2	47.2	55.5	54.0	mg/Kg	EPA 6010B	8/1/14	92.7	89.5	2.72	75-125	20
Copper														
	88762-12	44	47.2	47.2	73.5	66.8	mg/Kg	EPA 6010B	8/1/14	**61.9**	**47.6**	9.59	75-125	20
Lead														
	88762-12	17	47.2	47.2	65.2	51.4	mg/Kg	EPA 6010B	8/1/14	103	**73.6**	**23.6**	75-125	20
Molybdenum														
	88762-12	0.76	47.2	47.2	40.9	39.7	mg/Kg	EPA 6010B	8/1/14	85.2	82.6	3.00	75-125	20
Nickel														
	88762-12	83	47.2	47.2	125	117	mg/Kg	EPA 6010B	8/1/14	88.6	**73.0**	6.12	75-125	20
Selenium														
	88762-12	< 0.75	47.2	47.2	46.4	45.5	mg/Kg	EPA 6010B	8/1/14	98.3	96.5	1.87	75-125	20
Silver														
	88762-12	< 0.25	23.6	23.6	25.0	24.2	mg/Kg	EPA 6010B	8/1/14	106	102	3.10	75-125	20

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Report Number : 88762

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Thallium														
	88762-12	< 0.75	47.2	47.2	41.2	40.5	mg/Kg	EPA 6010B	8/1/14	87.4	85.9	1.74	75-125	20
Vanadium														
	88762-12	39	47.2	47.2	84.8	83.8	mg/Kg	EPA 6010B	8/1/14	96.6	94.6	1.15	75-125	20
Zinc														
	88762-12	110	47.2	47.2	188	122	mg/Kg	EPA 6010B	8/1/14	**168**	**27.0**	**42.8**	75-125	20
Mercury														
	88762-12	< 0.050	0.100	0.100	0.149	0.141	mg/Kg	EPA 7471A	8/1/14	112	104	5.39	75-125	20

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2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Antimony	50.0	mg/Kg	EPA 6010B	7/25/14	106	85-115
Arsenic	50.0	mg/Kg	EPA 6010B	7/25/14	104	85-115
Barium	50.0	mg/Kg	EPA 6010B	7/25/14	106	85-115
Beryllium	50.0	mg/Kg	EPA 6010B	7/25/14	95.5	85-115
Cadmium	50.0	mg/Kg	EPA 6010B	7/25/14	96.9	85-115
Chromium	50.0	mg/Kg	EPA 6010B	7/25/14	102	85-115
Cobalt	50.0	mg/Kg	EPA 6010B	7/25/14	103	85-115
Copper	50.0	mg/Kg	EPA 6010B	7/25/14	99.8	85-115
Lead	50.0	mg/Kg	EPA 6010B	7/25/14	100	85-115
Molybdenum	50.0	mg/Kg	EPA 6010B	7/25/14	106	85-115
Nickel	50.0	mg/Kg	EPA 6010B	7/25/14	102	85-115
Selenium	50.0	mg/Kg	EPA 6010B	7/25/14	105	85-115
Silver	25.0	mg/Kg	EPA 6010B	7/25/14	98.7	85-115
Thallium	50.0	mg/Kg	EPA 6010B	7/25/14	103	85-115
Vanadium	50.0	mg/Kg	EPA 6010B	7/25/14	98.7	85-115
Zinc	50.0	mg/Kg	EPA 6010B	7/25/14	106	85-115
Mercury	0.100	mg/Kg	EPA 7471A	7/24/14	103	85-115
Antimony	50.0	mg/Kg	EPA 6010B	8/1/14	104	85-115
Arsenic	50.0	mg/Kg	EPA 6010B	8/1/14	102	85-115
Barium	50.0	mg/Kg	EPA 6010B	8/1/14	100	85-115

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QC Report : Laboratory Control Sample (LCS)

Date : 08/01/2014

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Beryllium	50.0	mg/Kg	EPA 6010B	8/1/14	98.9	85-115
Cadmium	50.0	mg/Kg	EPA 6010B	8/1/14	104	85-115
Chromium	50.0	mg/Kg	EPA 6010B	8/1/14	102	85-115
Cobalt	50.0	mg/Kg	EPA 6010B	8/1/14	103	85-115
Copper	50.0	mg/Kg	EPA 6010B	8/1/14	100	85-115
Lead	50.0	mg/Kg	EPA 6010B	8/1/14	101	85-115
Molybdenum	50.0	mg/Kg	EPA 6010B	8/1/14	103	85-115
Nickel	50.0	mg/Kg	EPA 6010B	8/1/14	102	85-115
Selenium	50.0	mg/Kg	EPA 6010B	8/1/14	104	85-115
Silver	25.0	mg/Kg	EPA 6010B	8/1/14	102	85-115
Thallium	50.0	mg/Kg	EPA 6010B	8/1/14	103	85-115
Vanadium	50.0	mg/Kg	EPA 6010B	8/1/14	98.3	85-115
Zinc	50.0	mg/Kg	EPA 6010B	8/1/14	106	85-115
Mercury	0.100	mg/Kg	EPA 7471A	8/1/14	102	85-115
1,1,1,2-Tetrachloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	102	70.0-130
1,1,1-Trichloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	115	70.0-130
1,1,2,2-Tetrachloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	90.4	70.0-130
1,1,2-Trichloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	104	70.0-130
1,1-Dichloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	100	70.0-130
1,1-Dichloroethene	0.0389	mg/Kg	EPA 8260B	7/24/14	93.9	70.0-130
1,1-Dichloropropene	0.0389	mg/Kg	EPA 8260B	7/24/14	103	70.0-130

QC Report : Laboratory Control Sample (LCS)

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2,3-Trichlorobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	88.7	65.0-130
1,2,3-Trichloropropane	0.0389	mg/Kg	EPA 8260B	7/24/14	105	70.0-130
1,2,4-Trichlorobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	82.9	70.0-130
1,2,4-Trimethylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	95.3	70.0-130
1,2-Dibromoethane	0.0392	mg/Kg	EPA 8260B	7/24/14	107	70.0-130
1,2-Dichlorobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	89.8	70.0-130
1,2-Dichloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	114	70.0-130
1,2-Dichloropropane	0.0389	mg/Kg	EPA 8260B	7/24/14	95.7	70.0-130
1,2-dibromo-3-chloropropane	0.0389	mg/Kg	EPA 8260B	7/24/14	103	70.0-130
1,3,5-Trimethylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	94.4	70.0-130
1,3-Dichlorobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	91.8	70.0-130
1,3-Dichloropropane	0.0389	mg/Kg	EPA 8260B	7/24/14	106	70.0-130
1,4-Dichlorobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	87.0	70.0-130
2+4-Chlorotoluene	0.0778	mg/Kg	EPA 8260B	7/24/14	90.6	70.0-130
2,2-Dichloropropane	0.0389	mg/Kg	EPA 8260B	7/24/14	108	70.0-130
Benzene	0.0389	mg/Kg	EPA 8260B	7/24/14	96.0	70.0-130
Bromobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	96.7	70.0-130
Bromochloromethane	0.0389	mg/Kg	EPA 8260B	7/24/14	104	70.0-130
Bromodichloromethane	0.0389	mg/Kg	EPA 8260B	7/24/14	110	70.0-130
Bromoform	0.0389	mg/Kg	EPA 8260B	7/24/14	109	70.0-140
Bromomethane	0.194	mg/Kg	EPA 8260B	7/24/14	106	55.0-130
Carbon Tetrachloride	0.0389	mg/Kg	EPA 8260B	7/24/14	114	70.0-130
Chlorobenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	92.2	70.0-130

QC Report : Laboratory Control Sample (LCS)

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Chloroethane	0.0389	mg/Kg	EPA 8260B	7/24/14	83.2	70.0-130
Chloroform	0.0389	mg/Kg	EPA 8260B	7/24/14	107	70.0-130
Chloromethane	0.0389	mg/Kg	EPA 8260B	7/24/14	79.8	60.0-130
Dibromochloromethane	0.0389	mg/Kg	EPA 8260B	7/24/14	111	70.0-130
Dibromomethane	0.0389	mg/Kg	EPA 8260B	7/24/14	117	70.0-130
Dichlorodifluoromethane	0.0389	mg/Kg	EPA 8260B	7/24/14	78.2	40.0-135
Ethylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	96.4	70.0-130
Hexachlorobutadiene	0.0389	mg/Kg	EPA 8260B	7/24/14	81.4	70.0-130
Isopropyl benzene	0.0389	mg/Kg	EPA 8260B	7/24/14	93.2	70.0-130
Methylene Chloride	0.0389	mg/Kg	EPA 8260B	7/24/14	101	70.0-130
Naphthalene	0.0389	mg/Kg	EPA 8260B	7/24/14	88.7	70.0-130
O-Xylene	0.0389	mg/Kg	EPA 8260B	7/24/14	97.6	70.0-130
P + M Xylene	0.0389	mg/Kg	EPA 8260B	7/24/14	93.0	70.0-130
Styrene	0.0389	mg/Kg	EPA 8260B	7/24/14	93.4	70.0-130
Tetrachloroethene	0.0389	mg/Kg	EPA 8260B	7/24/14	104	70.0-130
Toluene	0.0389	mg/Kg	EPA 8260B	7/24/14	99.0	70.0-130
Trichloroethene	0.0389	mg/Kg	EPA 8260B	7/24/14	98.7	70.0-130
Trichlorofluoromethane	0.0389	mg/Kg	EPA 8260B	7/24/14	103	70.0-130
Vinyl Chloride	0.0389	mg/Kg	EPA 8260B	7/24/14	83.5	70.0-130
c-1,3-Dichloropropene	0.0389	mg/Kg	EPA 8260B	7/24/14	100	70.0-130
cis-1,2-Dichloroethene	0.0389	mg/Kg	EPA 8260B	7/24/14	101	70.0-130
n-butylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	84.9	70.0-130
n-propylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	94.6	70.0-130

QC Report : Laboratory Control Sample (LCS)

Project Name : **Public Storage - Newark**

Project Number : **PUBL07143**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
p-isopropyltoluene	0.0389	mg/Kg	EPA 8260B	7/24/14	93.6	70.0-130
sec-butylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	90.7	70.0-130
t-1,2-Dichloroethene	0.0389	mg/Kg	EPA 8260B	7/24/14	98.0	70.0-130
t-1,3-Dichloropropene	0.0389	mg/Kg	EPA 8260B	7/24/14	111	70.0-130
tert-butylbenzene	0.0389	mg/Kg	EPA 8260B	7/24/14	94.7	70.0-130

KIFF ANALYTICAL, LLC

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KIFF Analytical LLC

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Lab: 530.297.4800
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SRG # / Lab No. 88762

Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nicole Persaud	California EDF Report? ☐ Yes ☒ No
Company / Address: Antea Group / 1155 N. First St. STE 201 San Jose, CA	Sampling Company Log Code:
Phone #: (408) 604-4900	Fax #:
Project #: PUBL07143	P.O. #: PUBL07143
Project Name: Public Storage - Newark	Global ID:
Project Address: 6500 Overlake Place Newark, CA 94560	EDF Deliverable To (Email Address): nicole.persaud@anteagroup.com
	Sampler Signature: S. Reed

Sample Designation	Field Point Name	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	CAM 17 Metals	8260B (Full list)	Notes	TAT: 12 hr	TAT: 24 hr	TAT: 48 hr	TAT: 72 hr	TAT: 1 wk	For Lab Use Only
B-14 d 2.0	B-14	7/22/14	0900		X						X		X	X	X				☒			01
B-14 d 5.0	↓		0945											X								02
B-14 d 7.0	↓		1020													HOLD						03
B-15 d 2.0	B-15		1052											X								04
B-15 d 5.0	↓		1158											X								05
B-15 d 7.0	↓		1230													HOLD						06
B-16 d 2.0	B-16		1300											X								07
B-16 d 5.0	↓	7/23/14	1340											X								08
B-16 d 7.6	↓		1330													HOLD						09
B-17 d 2.0	B-17		1345											X								10
B-17 d 5.0	↓	7/23/14	1340	1355										X								11
B-17 d 7.0	↓	↓	1400		↓						↓		↓			HOLD						12

Relinquished by:	Date	Time	Received by:
S. Reed	7/23/14		
	072314	1250	Received by Laboratory: Kiff

Hold all samples @ 7 Sf.

Please also CC: steve.morden@anteagroup.com

For Lab Use Only: Sample Receipt

Temp °C	Initials		Date	Time	Therm. ID	Coolant Present
						Yes / No

Page 45 of 45

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Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nicole Peirsond	California EDF Report? ☐ Yes ☒ No
Company / Address: Antea Group / 1155 N. First St. STE 201 San Jose, CA	Sampling Company Log Code: —
Phone #: (408) 566-4900	Fax #:	Global ID: —
Project #: PUBL07143	P.O. #: PUBL07143	EDF Deliverable To (Email Address): nicole.peirsond@anteagroup.com
Project Name: Public Storage - Newark	Sampler Signature: S. Morden
Project Address: 6500 Overlake Place Newark, CA 94560	

Sample Designation	Field Point Name	Sampling Date	Sampling Time	Containers: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	Matrix: Water	Soil	CAM 17 Metals by EPA Method 6010	Analysis Request: Notes	TAT: 12 hr ☐	24 hr ☐	48hr ☒	72 hr ☐	1 wk ☐	For Lab Use Only
B-18d2.0	B-18	7/22/14	1420		X						X		X	X							13
B-18d5.0	↓	7/22/14	1446		↓						↓		↓	↓							14
B-18d7.0	↓	↓	1445		↓						↓		↓	↓	HOLD						15
B-19d2.0	B-19		1540		↓						↓		↓	↓							16
B-19d5.0	↓		1545		↓						↓		↓	↓							17
B-19d7.0	↓	↓	1628		↓						↓		↓	↓	HOLD						18
B-18d6.0	B-18	↓	1515		↓						↓		↓	↓	HOLD						19
B-19d6.0	B-19	↓	1635		X						X		X	↓	HOLD						20
B-19d3.0	↓	↓	1635		X						X		X	↓	HOLD						21

Relinquished by:	Date	Time	Received by:
S. Morden	7/25/14		
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	072314	1250	Hand Brewer

Hold B-18d6.0, B-19d6.0, B-19d3.0 and all samples @ 7°C.

Please also CC: steve.morden@anteagroup.com

For Lab Use Only: Sample Receipt

Temp °C	Initials		Date	Time	herm. ID	Coolant Present
						Yes / No

Page 44 of 46

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 88762

Sample Receipt	Initials/Date: TJB 072314	Storage Time: 1715	Sample Login	Initials/Date: TJB 072314

TAT: ☐ Standard ☒ Rush ☐ Split ☐ None | Method of Receipt: ☒ Courier ☐ Over-the-counter ☐ Shipped

Temp °C 0.6 ☐ N/A | Therm ID IR-1 | Time 1659 | Coolant present ☒ Yes ☐ No ☐ Water | ☐ Temp Excursion

For Shipments Only: Cooler Receipt Initials/Date/Time: | Custody Seals ☐ N/A ☐ Intact ☐ Broken

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X	X	
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?	☒ N/A	☐ Yes	☐ No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?	X		
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?	X		
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Two collection times are indicated on the COC for sample -11; it is 13:55 according to the label on the sleeve. TJB 072314 1751

Receipt Details:

Matrix	Container Type	# of Containers
SO	Sleeve	21

CS Required: ☐

Proceed With Analysis: ☐ YES ☐ NO Init/Date:
Client Communication:

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if Known): 0.6 **ºC**

Antea™Group Laboratory Data Validation Sheet

Project/Client: Public Storage

Project #:

Date of Validation: 07/28/2014 **Date of Analysis:** 7/24, 7/25/2014

Sample Date: 7/22/2014 **Completed By:** Kira Thornley

Signature:

Circle or Highlight

Yes / No

(below)

Analytical Lab Used and Report # (if any): Kiff 88762

1.	Were the analyses the ones requested?	**Yes** / No
2.	Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	**Yes** / No
3.	Were samples prepared (extracted, filtered, etc.) within EPA holding times?	**Yes** / No
4.	Once prepared/extracted, were the samples analyzed within the EPA holding times?	**Yes** / No
5.	Were Laboratory blanks performed, if so, were they non-detect?	**Yes** / No
6.	Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	**Yes** / No
7.	Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	**Yes** / No
8.	Were blank spike (SS or LCS) or blank spike duplicate (SSD or LCSD) samples included in the laboratory batch samples?	**Yes** / No
9.	Were QA/QC samples (MS/MSD, SS/SSD, LCS/LCSD) within the shown acceptable range of % recovery?	Yes / **No**
10.	Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	**Yes** / No
11.	Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?	**Yes** / No
12.	Were surrogate recoveries within the acceptable range (i.e. ±30%)?	**Yes** / No

For a 'no' answer, explain why and what corrective action was taken (use additional sheet(s), as necessary:

Recoveries for some MS/MSD analytes were outside control limits. Since LCS recoveries were within control limits, the data is considered valid